The Antique Radio Gazette

OFFICIAL PUBLICATION OF THE ANTIQUE RADIO CLUB OF AMERICA

VOL. 10 SUMMER 1982 NO. 2

Colin B. Kennedy holding a 2 Kw Federal Tel. Co. arc magnet pole. He is standing by a Federal 500 Kw arc magnet pole in the Federal Palo Alto factory circa 1917-18.
Leonard F. Fuller

LAKE PLACID MEET

by
Jim Davis

Friendly faces and a spectacular mountain setting greeted the more-than-100 Club members who attended ARCA's Tenth Anniversary Meet in Lake Placid, N.Y., on June 3 to 5. The meet attracted collectors from as far away as California, and everyone had high words of praise for the program's events.

The Outdoor Flea Market on the meet's first day took place under sunny skies, as traders set up their wares in the parking lot of the Hilton Hotel, where the meet was held. Many swaps were engineered before the sun set. In the meantime, the ladies were taken on an escorted tour up nearby Whiteface Mountain, where the world's best downhill skiers competed during the 1980 Winter Olympics.

That evening, everyone congregated to recount their day's activities and renew old acquaintances during the complementary Get Acquainted Reception at the hotel. This event proved to be the first of a series of meet highlights, with the meatballs that were being served earning especially high marks. That evening we were entertained by Ross Smith with his slide show of highlights of ARCA Meets over the past ten years.

The next day, Friday, offered a continuation of the Flea Market, and an all-day trip to Montreal for the ladies.

Meantime, at the hotel, collectors congregated for the afternoon auction and Old Equipment Contest in the lower ballroom. Lots of classic pieces were on display in the contest, polished up and looking as sharp as they had when new. And collectors got their chance to snap up bargains during the spirited bidding that took place during the auction.

The barbecue that evening was followed by the much-anticipated Bruce Kelley program, and the evening's activities concluded for many with dancing in the hotel's cocktail lounge to the sounds of live music.

Owing to these late-night goings-on, the next day's program got underway a bit later, at 10 a.m. Early television receivers and production were the subjects of the morning's panel and discussion group, led by Jack Davis, Dick Brewster and Ken MacIntosh, who put on a superb TV slide show, where several collectors recalled this medium's earliest days, no doubt jogging more than a few memories of their fellow collectors.

Many of those not at the television program went on a morning tour of the surrounding area's Olympic sites. This event also proved to be exceedingly popular, as many tour-goers got their first chance for an in-person viewing of the facilities they had previously seen only in newspapers and on television. The afternoon offered several other activities including Ralph Williams' Atwater Kent program, a modified "Show and Tell" and a general ARCA meeting.

The traditional banquet that evening served as the meet's finale. After enjoying a fine dinner, club members and their wives listened to Bruce Kelley's speech.

Most everyone left the next morning, with fond memories of the previous three days and hopes of being able to re-create the congenial atmosphere that prevailed in Lake Placid at meets and other club activities as ARCA enters its second decade.

THE COLIN B. KENNEDY CO.

by
Alan S. Douglas

Colin B. Kennedy is gone — he died in 1942 — but remarkably, his co-founding partner in the Colin B. Kennedy Co. is still with us: Dr. Leonard Fuller, better known for his arc transmitter design with Federal Telegraph Co. Taking Dr. Fuller's information as a starting point, here is the story of this famous company, whose equipment ranks with Grebe's as the finest examples of craftsmanship among broadcast-radio manufacturers.

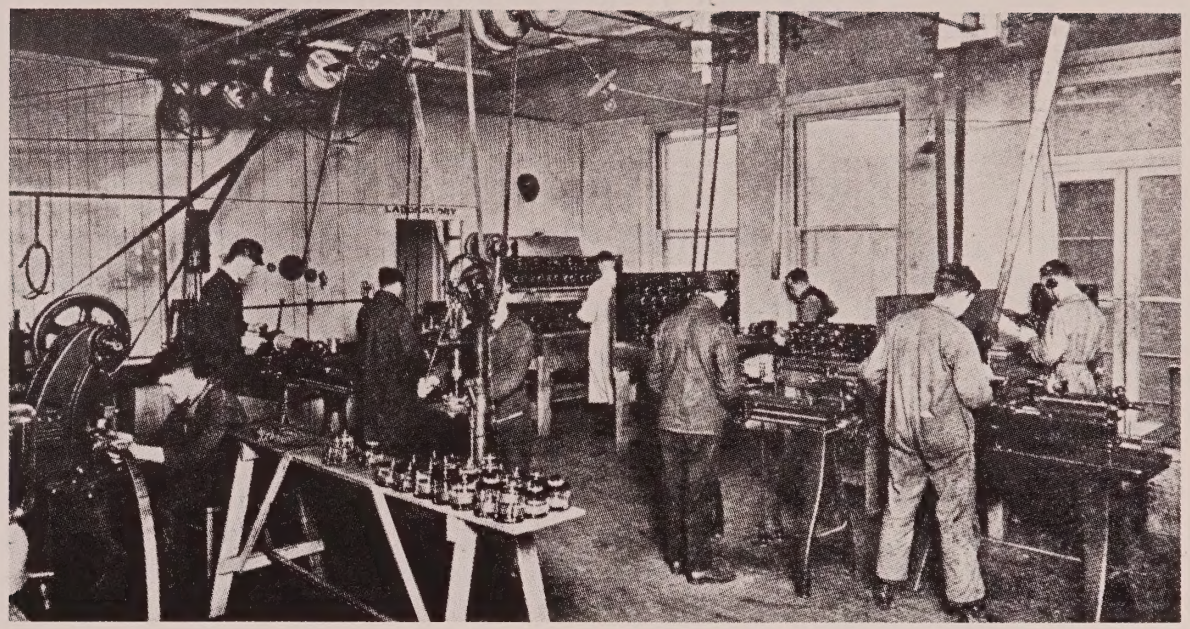
Colin Bruce Kennedy was born in Teeswater, Ontario on Feb. 6, 1885. He learned telegraphy while working as an errand boy for a small-town drugstore which was also the telegraph office. Forsaking school, he left home at about fourteen to spend the next ten years as a telegraph operator in many cities throughout Canada. The last two of these years he was in charge of two radio stations on the west coast of Vancouver Island in the Canadian Government wireless service.[1]

He spent his next seven years with the Federal Telegraph Co., first as a radio operator, then as an assistant engineer at the Palo Alto plant. Kennedy impressed the Chief Engineer, Dr. Fuller, as having a good business head as well as practical radio competence. He could handle men well and was ambitious, but was a perfect gentleman.[2]

In the summer of 1919, when Federal was about to be moved to New Jersey, Kennedy approached Dr. Fuller with the idea of forming a new radio company, to manufacture broadcast receivers.[3] Dr. Fuller put up the money but preferred for personal business reasons to name the new company after Colin B. (pronounced, by the way, "coal-in"). In October 1919 their first ad appeared in Wireless Age, followed by an ad for their VP-5 detector box in December. With the post-war resumption of Pacific Radio News in January 1920, Kennedy transferred his advertising there. Some ads featured equipment, while others showed components, or listed components of other makers which could be bought at retail at their office. Apparently a good proportion of their business was retail sales. By 1922 they were regional jobbers for RCA and a dozen other well-known manufacturers.

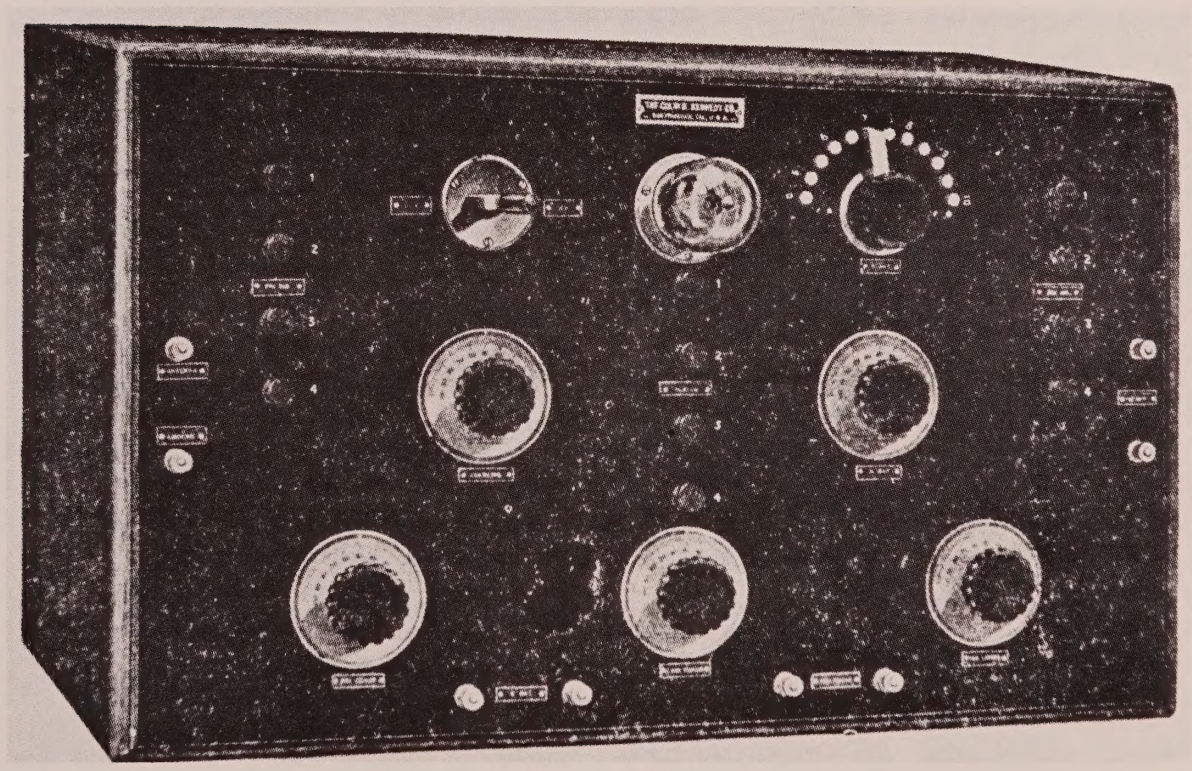
The Kennedy line included receivers, detector panels, and audio amplifiers. Their first receiver was the long-wave LWR-20, first mentioned in April 1920 but probably available earlier, and the short-wave SWR-6 advertised in January. These were advertised as regenerative receivers, which fact probably attracted the attention of E. H. Armstrong's patent attorneys and resulted in Kennedy's taking out an Armstrong license in mid-1920, as all other licensees had been "requested" to do. By the end of 1920 Kennedy had renamed his receivers "type 100" and "200" respectively, and had a type 300 detector unit and a type 520 two-step amplifier to match them.[4]

A factory photo published in March 1921 shows nine men working, presumably the entire shop force. In spite of what the accompanying article says about the domestic and foreign demand being large, no type 100 or 200 receivers are known to exist now (as far as I know) and it seems unlikely that



RADIO RECEIVING SETS

The Colin B. Kennedy Company specializes in high grade radio receivers, and is helping to supply the demands of South America and the Orient, which have important radio stations under way. Both the local and foreign demand are large.



TYPE 100 LONG WAVE REGENERATIVE RECEIVER

many were made. In August 1921, however, came a model that we all recognize: the 110 "Universal," followed shortly by the 220 "Intermediate." These were designed by Kennedy and Emil Portal. The months of design effort that went into these models is reflected in the fact that they remained essentially unchanged for several years afterward; in other words, it was impossible to improve on them. These two models made the Kennedy reputation. The type 525 two-step amplifier matched both.

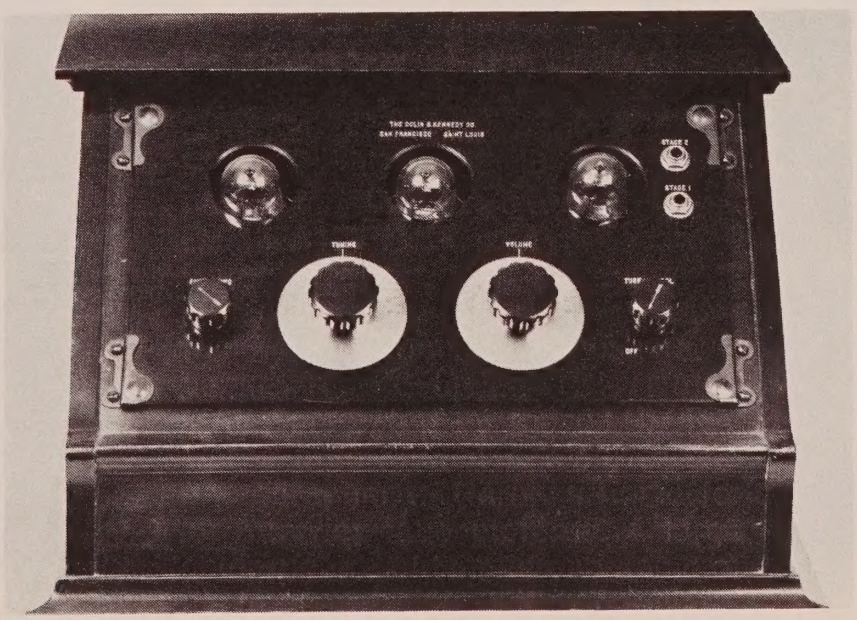
Kennedy's early lineup was completed with the 281 short-wave receiver, first advertised in January 1922, and the matching 521 two-step amplifier, from October 1921.

One might logically have expected Kennedy to be first on the west coast with a broadcase station; he was not, but he did have one going by October 1921. 6XAC, Los Altos, was run by Emil Portal and located on the estate of Portal's wife's parents. Rated at 60 watts, it was noted for its technical excellence. The following July, 6XAC became KLP.

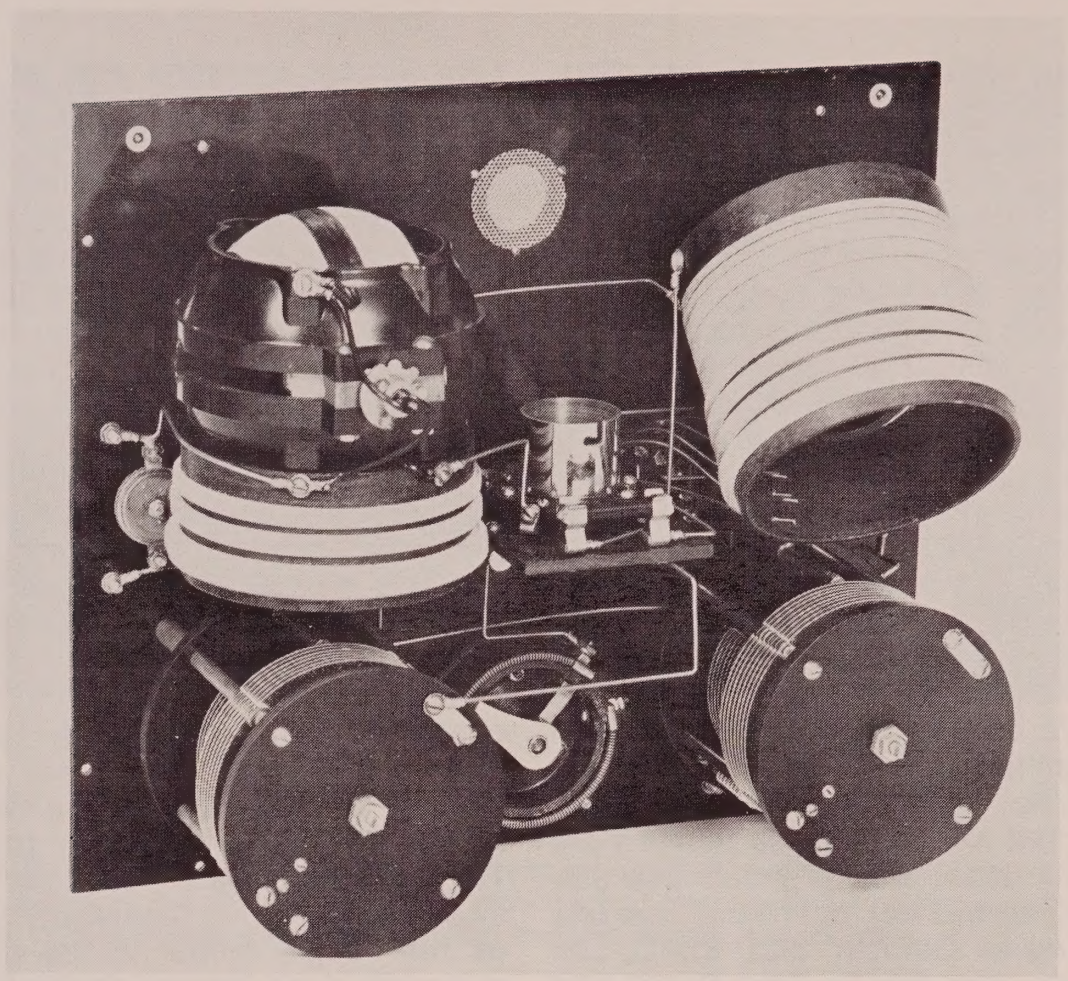
Kennedy's offices, in the Rialto Building in San Francisco, were within a block of those of Wagner Electric of St. Louis, an old-line manufacturer of electric motors. Like almost everyone else at the time, Wagner wanted to get into radio, and when they found that Kennedy had an Armstrong license, they suddenly became very interested in a purchase. Details were worked out by June 1922; Kennedy's ads spoke of "opening another factory in St. Louis to handle the Eastern demand" but it seems that the whole operation was moved there, lock, stock, and Colin B. himself. Dr. Fuller was nominally on the payroll but in fact left for other ventures. Chief Engineer was B. F. McNamee, formerly Chief Engineer of Moorhead Laboratories.

Although the 110, 220, and 281 continued to sell,[5] Kennedy knew that a new series of models was needed, one that cost less to make, and could sell at a greater profit. The model V chassis was the answer. It appeared in September 1923 as the simple model V, the more elaborate X, all the way to the $825 Spanish Desk. Later it was also used in a portable, superseding the one-tube 311 portable of June 1923. The outstanding performance of the V chassis maintained the Kennedy image as "The Royalty of Radio" that Wagner depended upon.

When regenerative sets hit the skids of public opinion in 1924 and '25, Wagner didn't know quite what

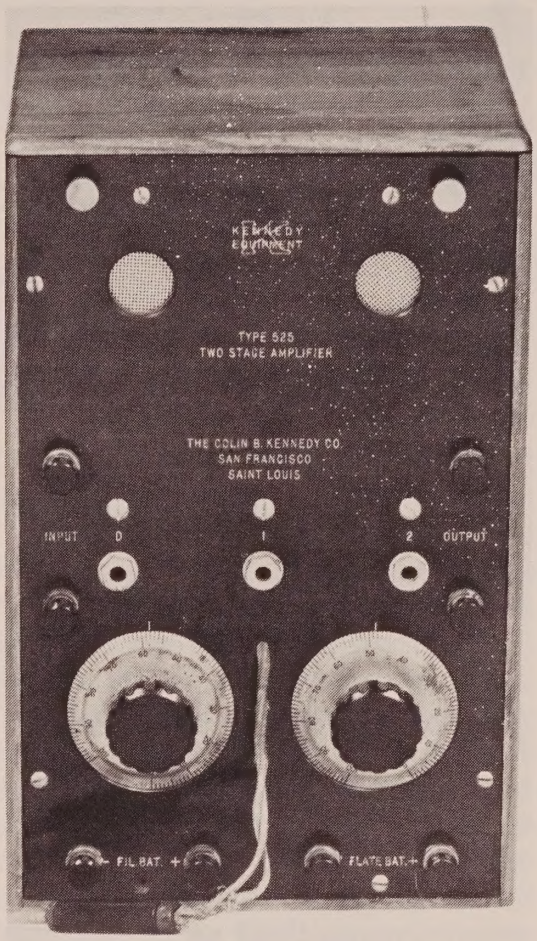


MODEL V



KENNEDY EQUIPMENT
TYPE 220
INTERMEDIATE WAVE
RECEIVER
SERIAL Nº 3946
THE COLIN B. KENNEDY CO
SAN FRANCISCO
COUPLING
REGENERATION
ANT.
SER.
PAR.
GND.
PHONES
INCREASE
PRI. COND.
SEC. COND.
FILAMENT
— FIL. BAT. +
— PLATE BAT. +

to do. They added a fourth tube to the V chassis, making it into a VI (or XI, in a larger cabinet), in late 1924. And at the same time they made a five-tube TRF model XV that resembled a stretched-out V. This was followed by the one-dial 22 and the XXX.[6] Not having made a study of these later models, I can't say why they didn't succeed; possibly it was Wagner's love of fancy slogans and gold-plated trimmings rather than up-to-date advertising and sales promotion that did it. At any rate, Kennedy petered out; the last ad appeared in Radio Retailing in June 1927. The company name reappeared for one month a year later, with the address of Highland, Illinois, then vanished until Studebaker acquired them in March 1929 and moved them to Ft. Wayne, Indiana.

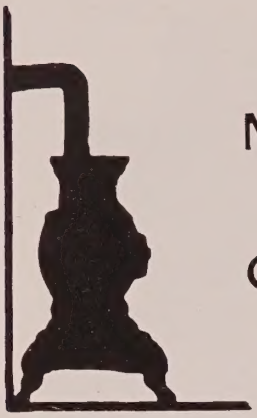


Studebaker made a great show, with four-page color ads in Radio Retailing (to snare new dealers), and kept plugging away for several years, but it was the wrong time to be promoting "The Royalty of Radio." Kennedy degenerated to making midget sets like everyone else, and after mid-1932 no more was heard of them.

FOOTNOTES

1. Obituary, IRE Proceedings, Sept. 1942, p. 430.
2. Letter from Dr. Fuller, August 26, 1981.
3. Dr. Fuller is absolutely sure of this, however unlikely it might seem to have made broadcast sets when no one was yet broadcasting. I don't agree fully; still, the idea of broadcasting was not at all new in the San Francisco area. Herrold had broadcast as far back as 1909 from San Jose, as had de Forest later, and in fact one of Kennedy's first employees, Production Manager Emil Portal, had worked with Herrold and later ran Kennedy's own station 6XAC.
4. Kennedy put out catalogs from time to time but I have never seen one. This model information has been compiled from ads and magazine text.
5. San Francisco-made sets are engraved as such on the panel. St. Louis sets, much more common now, are marked with both cities. There are minor mechanical differences in the two types such as binding posts and verniers. The original 281 differed markedly from the later one, however; they can be told apart by the dial placement.
6. Pictured in Vintage Radio.

My thanks to Thorn Mayes for the loan of early issues of Pacific Radio News, and to Dr. Fuller.



MEL'S CORNER

When we look over our collections of old-time wireless/radio gear — the thought often comes to us — just what were the signals like when they were first made and operated?

The powerful stations of today come booming in on these old sets, some still selective and capable of far reaching DX signals. A number of these olds sets work even better than they did originally, due to modern transmitters.

Going way back — a lot depended on where you lived as to the results obtained. A few hundred miles plus a mountain or so in between made a big difference. Long antennas and multi-wire flat-tops were the order of the day! The thrill on the east coast was mainly listening to the great amounts of static these antennas produced. Time signals and press from the then powerful spark stations of old NAA, located at Arlington, Virginia on 2500 meters, was the reference as to how well your set performed.

The distinctive note of NAA was a pleasure to listen to with a higher frequency than most. With the few stations that broke through these remote areas you could practically identify stations by tone note as you would on a piano!

The advent of the amateur going from spark coil to quarter-half and one KW spark transmitters with rotary gaps inspired more and more listeners to becoming operators. Broad as a barn, these stations fought their way through the traffic. The slowly rising and departing notes of a rotary gap when signing are truly music of the past!

And then came the youngster who scrounged pennies to afford a Model T Ford spark coil with which he paper-wadded the vibrator to peak the note — and add to the din of confused reception. These unlicensed youngsters were the bane of many a ham who happened to live close by. It was not unheard of to find some of these offending antennas slashed, grounded or laying on the ground at various occasions.

As the arc stations appeared, the "birdies" became more plentiful and powerful. The high singing note of the arc on long wave broke through many a distance barrier. What a pleasure to listen to!! Many a long wave loading coil was wrapped and tapped with fine wire hour-on-end to reach these stations.

From the onery growl of a spark steamship to the rotary ham — to the tweak of a Naval station — to the "birdies" of arc — finally the spoken word, the forerunner of Broadcast! Modulated voice at first resembled a tin can opera! Music became something else — but it was still music to our ears.

The tones of yesterday will not be forgotten by old-timers. The crashes of static breaking through are all but a memory. Those sets on the shelves of collectors produced the tones and music of yesterday — gone for good — but with fond memories!

THANK YOU NOTE:

As of May 15, 257 back copies of Gazettes have been ordered. Copies of Vol. 5 No. 3 and Vol. 7 No. 1 are sold out. Those interested in *articles* in these issues, may have Xerox copies made at 20¢ a sheet.

LETTERS

Dear John:

In 1921 I walked from Beverly, MA to Chelsea, MA, going to Chelsea Radio Company for a job.

I met the owner, Mr. Goodwin — I forget his first name — and they hired me to inspect their production of tuned radio frequency receivers, and regenerative receivers.

In the fall of 1921 we were producing an average of 300 sets per day.

I placed two regenerative receivers on a shelf above the test bench which were used to tune the TRF receivers as the regenerative sets radiated just enough RF to tune the low and high end of the TRF sets.

While there I had the shop engraver make a plate for my Coherer receiver I built when only 8 years old. I still have the Coherer receiver. It still works.

About a month of producing the TRF receiver, I noticed we were getting a lot of shorts in the TRF coils. The RF coils were spider web wound. On crossing around the winding spindles, there occurred a short circuit, the 90 volts B plus arced through the winding of cotton covering.

It occurred to me that there was going to be a great loss in business if this kept up. So I went into the main office and told Mr. Goodwin that they would be getting back shorted sets by the carload if they didn't cure this difficulty. I offered to supply the fish line to wind one turn between the primary and secondary of the RF coils.

They refused to correct the difficulty, and sure enough, one Christmas season THREE CARLOADS CAME BACK!!

They tried to accuse me of poor testing, so I reminded them that I warned them about the shorts that summer.

I wasn't fired, but I left on my own accord. I didn't want to be liable for the difficulty, so I left.

This is a very sad and shameful story, but it is true.

I haven't seen any pictures of the TRF set so far, and would like a copy if anyone has one.

I don't recall the status of the Chelsea Radio Co. and how it started. Too long ago to remember.

Art E. Ericson
Box 212
Beverly, MA 01915
WINF — A ham since 1902

Hudson & Marshall, Inc. is proud to announce that on September 18 & 19, 1982, they will conduct an absolute auction of over 600 objects for the Henry Ford Museum and Greenfield Village. All objects in the auction have been deemed duplicate or out of the scope of the museum's collecting areas. Funds generated from the sale of objects will be restricted to acquisition of new collection objects or the conservation of existing collections.

The auction will take place on the activities field of Greenfield Village in Dearborn, Michigan. A catalog containing hundreds of photos and descriptions of every item to be sold is available through Hudson and Marshall, Inc., 717 North Avenue, Macon, GA 31211. The cost of the catalog is $12.00 and includes admission to the auction and bidder registration fees included are:

14 telephones, 18 radio receivers, 11 pianos & organs, 20 phonographs, 10 agricultural items, 22 domestic art objects, 16 BiPolar Dynamos, 8 BiPolar Dynamo models, 4 hot air engines, 6 internal combustion engines, 19 steam engines, 24 steam indicators, 16 motors & generators.

Please contact Don Adams, who is in charge of Public Relations, Edison Institute, 20900 Oakwood Boulevard, Dearborn, Michigan 48121, 313/271-1620.

RESURRECTING A 1939 T.V.

by
Richard Brewster

In the summer of 1976 I was offered an opportunity to acquire a GE HM 225 television set, circa 1939. Having been interested in antique T.V. for quite some time, I should have immediately snapped it up! But this set was in *very* bad shape: a genuine basket case! So, I turned it down. I had ample opportunity to reflect on this decision during my flight back to Japan where my family and I had been living for the past year. Shortly after arriving in Japan I wrote and made an offer for the set which was subsequently accepted. It would be a challenging project upon my return to the U.S.A.!

When I was about fourteen years old, living in the N.Y. area, I had managed to get hold of a similar set. Unfortunately, I didn't have the foresight to keep "hold" of it! Because I couldn't get the set operational, it added to my parts collection! That wasn't all bad since one of the salvaged parts was the picture tube!

The HM 225 that I have is a 9" console model equipped with a side of the cabinet mounted 6AC7 preamplifier. (But no side mounted all wave radio which my earlier set did have.) The power supply is on a large, heavy chassis in the lower part of the cabinet and consists of two 5U4s and a 2x2/879 high voltage rectifier. (This was a very common arrangement in the first electronic sets.)

The audio/video chassis (about 18" square), is mounted midway up the cabinet in the normal horizontal fashion. The controls on the front are, left to right: tone, volume, fine tuning, focus, contrast, and brightness. There is also a row of 6 push-buttons for 'off' and channels 1 through 5.

The picture tube is mounted for direct viewing just above the controls. One of the unusual features of this set is the 9" tube which is made in Holland. It is a rather short magnetically deflected and focused Phillips no. MW-22-2, with a 5 pin base.

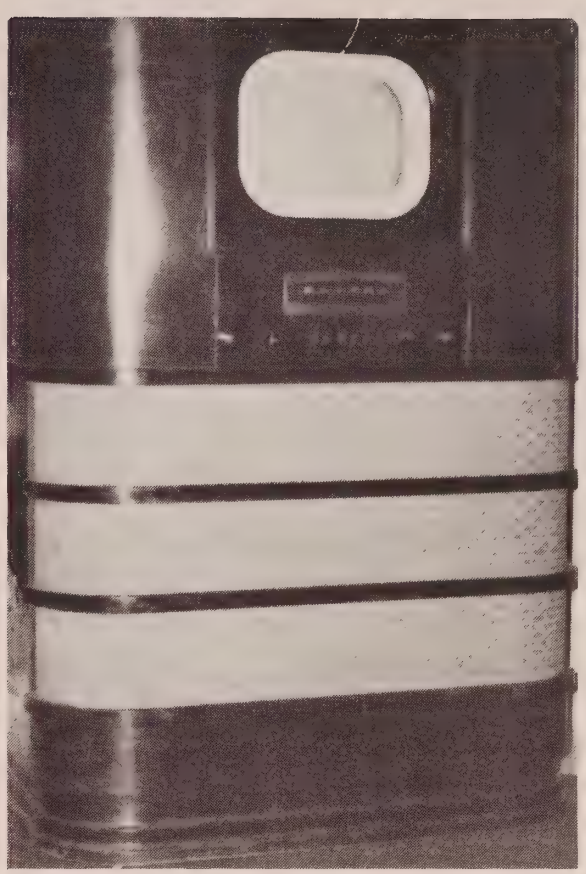
The rear mounted controls are, left to right: vertical size, vert. linearity, vert. hold, horizontal damping, horiz. hold, horiz. linearity, and horiz. size.

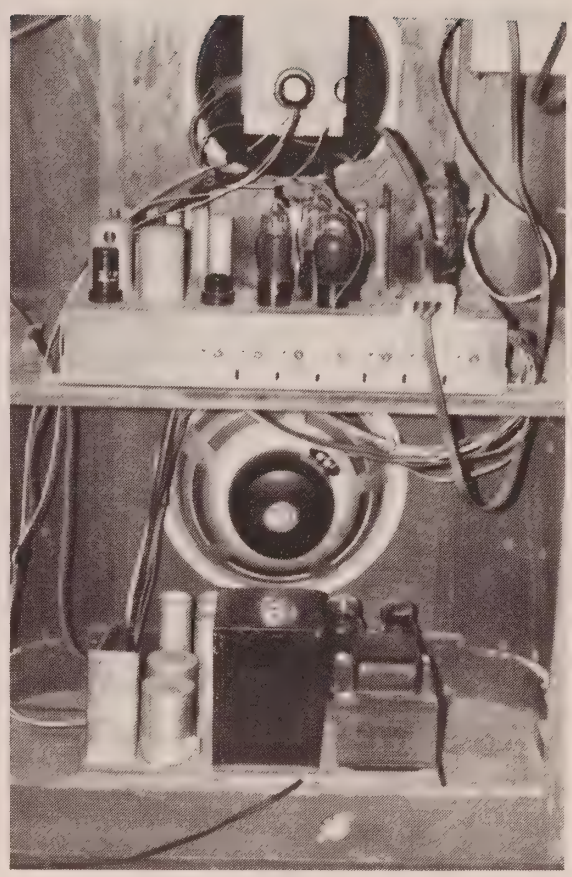
The front end has no RF amplifier (also common in pre-war sets), and thus the need for the pre-amplifier which has several switch positions similar to those on an old "rabbit ears" antenna. There are no markings on the preamplifier selector switch. The operator just chooses the position for the best picture. This unit is powered from an adaptor socket plugged under one of the 6F6 audio output tubes.

The push-button tuner has trimmer adjustments which are not accessible from the front of the set. The set has a dual-triode 6F8 oscilator/mixer which is followed by (4) 6AC7/1852 I. F. amplifiers operating at 12.75 MHZ. The video detector is a 6H6 followed by one triode section of a 6F8 for video amplifier and a 6F6 video output tube driving the picture tube grid.

The sound I.F. (8.25 MHZ) is picked off the first video I.F. and is amplified by a 6SK7 and the pentode section of a 6B8.

The sound detector, which is the





diode portion of the 6B8, is A.M. (T.V. sound was amplitude modulated in pre-war T.V.) Adequate F.M. reception is possible using "slope detection" which provides an output dependent on frequency as the sound carrier deviates up and down the slope of the detector response curve. The audio channel is completed with a 6SC7 dual triode operating as an amplifier and phase inverter followed by push-pull 6F6s.

Horizontal and vertical sync pulses are tapped off the first video amplifier and feed a 6F8 sync clipper followed by a sync amplifier. A separate clipper provides vertical sync. The horizontal oscillator is a 6N7 which is followed by a 6AL6 horizontal amplifier. As was previously mentioned, this set is magnetically deflected and the 6AL6 is transformer coupled to the deflection yoke.

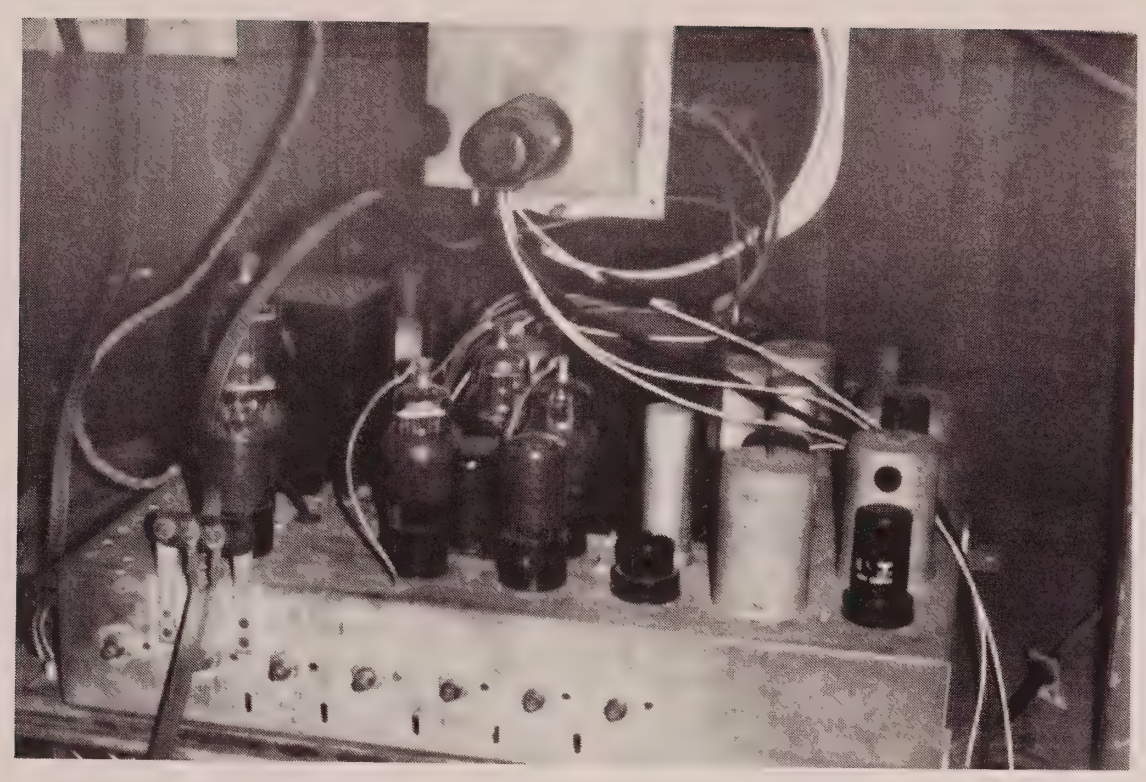
The vertical oscillator is a 6F8 which drives a 6F6 which is transformer coupled to the vertical coils of the deflection yoke.

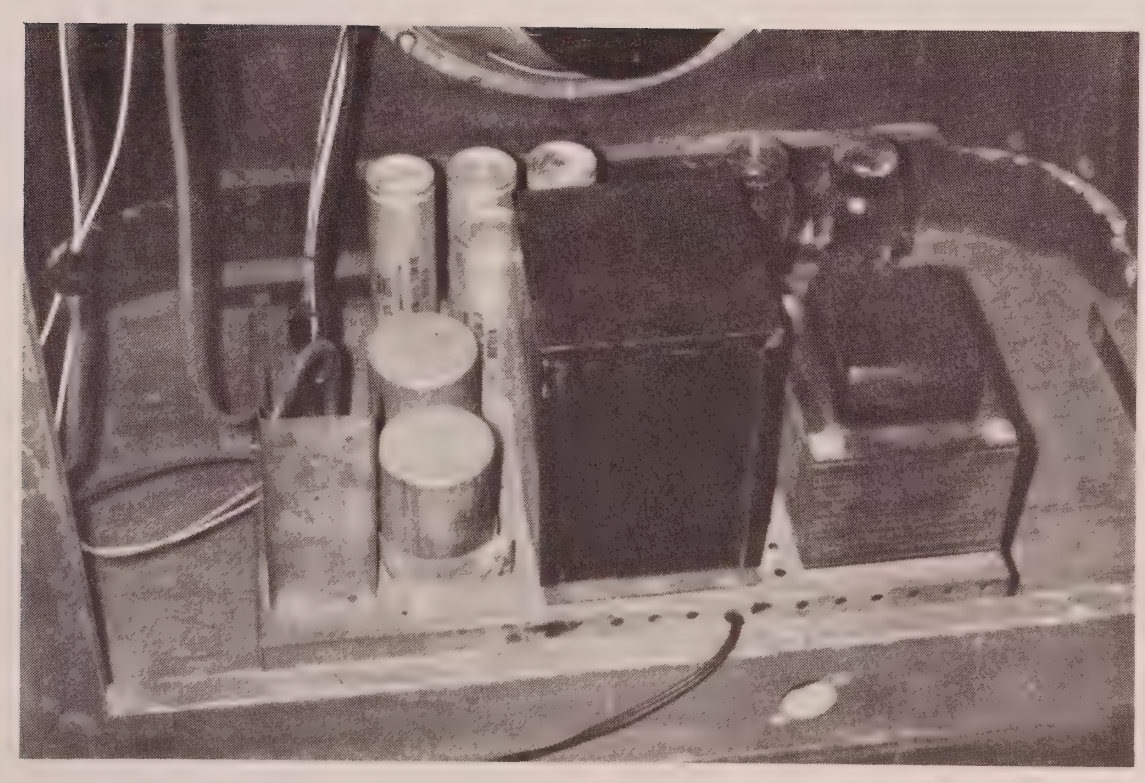
Now the fun begins: making the set operational!

The first step was to replace missing and bad tubes. This could have posed a problem if the 6AL6 were missing as this is a *rare* tube.

It should be noted at this point that a lot of the wiring in the set had deteriorated insulation; especially the leads that went from chassis to chassis and to the picture tube. These connections were replaced with wire of about the same vintage, although with far more durable insulation. This effort took quite some time!

The picture tube filament was good but the 5 pin base was missing with only the leads coming out of the tube. I spent a bit of time trying to figure out how to wire the cath-





ode, control grid, and accelerating grid to a 5 pin base. A decision was finally made to use the previously mentioned tube that had languished so long in the junk box!

Next, the transformers were checked for open windings and proper resistances as indicated on the schematic. No problems here. (The schematic, by the way, was located in volume XI of Riders, G.E. pages 11-35. A revised schematic was also located which defined a modified horizontal output circuit.)

The next step was to check the 8+ resistance to ground which at 20K OHMS was considered high enough to indicate that no obvious short circuit existed. I don't recall measuring the high voltage circuit resistance but that would sure be a good idea.

In any event, power was applied to the set with the rectifiers removed. All glass tubes lit! This verified that the power transformers were not shorted.

Then the rectifier tubes were replaced and the set was energized with a variac, slowly increasing the line voltage up to rated. This is done to allow the filter capacitors to reform while monitoring a series connected A.C. ammeter. During this time the low voltage was monitored to verify a smooth rise to about 300 volts. The high voltage was measured CAREFULLY and noted to be 3600 volts. I should mention at this point that this is a DANGEROUS power supply, capable of relatively high currents. (A modern T.V. set with a "flyback" type H.V. supply is quite safe in comparison, even though the voltage may be at least 5 times higher.)

Next, voltage measurements were made at all the plates and screens of the tubes. An open coil (L-17) was found in the plate circuit of the first video amplifier. This was repaired by soldering a poor connection at the coil terminal.

The biggest problem involved the horizontal circuitry. Someone had made changes and left it half done. The circuit was rewired per the schematic.

Now, I was delighted to see a poor, out of sync picture and hear some distorted sound! GREAT!

Next, I set out to improve the picture. I immediately discovered a shorted capacitor (C-47) across the vertical linearity pot. Replaced same.

The B+ seemed too low so I tried adding a 30 microfarad capacitor across the B+ supply. That raised the low voltage to about 400 Volts and improved both picture and sound. (Electrolytic capacitors often deteriorate with age and do not provide effective filtering. In a power supply this also affects the DC output voltage.)

The vertical frequency control range was not sufficient and had to be corrected by replacing R78 with a smaller value in series with the vert. hold control.

The next project was the sync. There was very little — the picture would not hold vertically or hozizontally! It was soon discovered that C34 which coupled the sync to the syn clipper grid was shorted. Replaced same and now the picture locked in quite well.

Another capacitor in the vertical circuit had to be replaced to improve the vert. linearity.

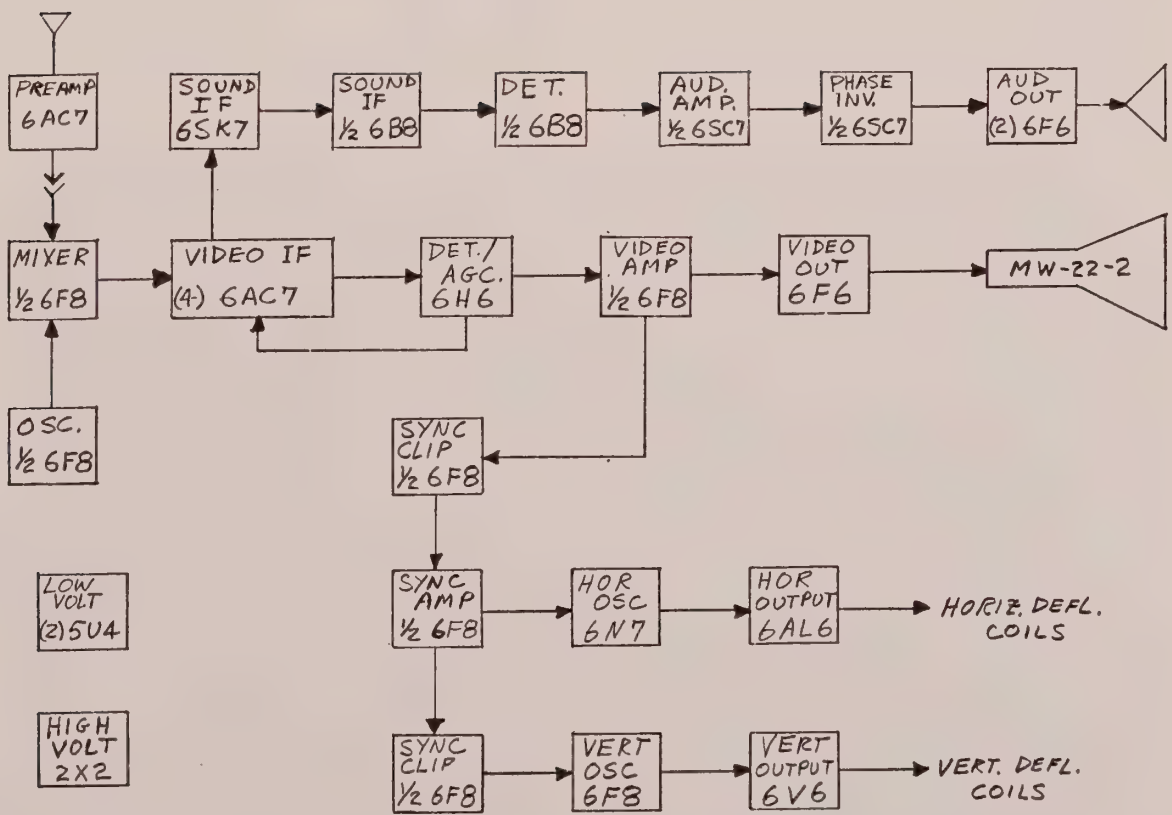
As you can see, relatively few components had to be replaced. It may be as time goes by other capacitors may become leaky but now four years later, the set still works!!!

The set works quite well even with a poor antenna in a relatively weak signal area. The contrast is adequate and the picture tube appears to be as good as new! But, it sure is great to have a spare even if it means determining how to wire up the five pin base. Of course only the low channels (2-6), can be received on this set. In our area we receive 2 & 4.

As a precaution, I have wired a thermistor in series with the AC line to reduce the surge when the set is switched on. Also an auto-transformer is used to provide 115 volts to the set from our 120-125V line.

Cabinet work is not my specialty but I was able to get it looking rather good with a little effort. The major work was the replacement of the grill cloth.

It certainly was a challenge to get this set operating even if it isn't in "like new" condition. But it has the latest push-button tuning feature — interesting for a set 43 years old!



G.E. HM-225B BLOCK DIAGRAM

A REVERSE TIME ADVENTURE

by
Serge L. Krauss

Collectors are similar to the last century prospectors, they dream about tomorrow's fabulous discovery. Today writers concoct stories about time machines that can project us into the future or take us backward into the past. A couple of years ago I was asked to appraise some radios a gun dealer had accumulated. They turned out to be uninteresting early 'electric sets' and the evening was disappointing until he mentioned an old crate in the back room which was there when he moved into the premises. The light was poor and the box was dirty, it had been used to brush out paint brushes, clean spray guns, and as a bulletin board. We slid it out into the center of the room and determined it contained something heavy. In the better light the box turned out to be a cleat framed shipping carton as used for appliances before corrugated paper cartons took over.

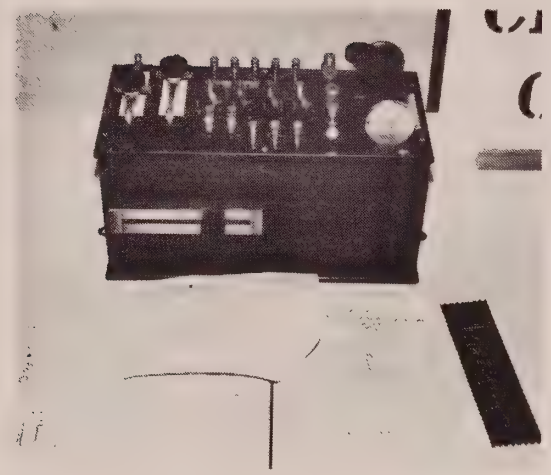
With a hammer and small pry bar we laboriously loosened the carton front panel; it was nailed about every six inches and the nails squeaked like they were cement coated. When we removed the panel and tore open the protective paper we found a beautiful 1929 Kennedy sliding door console radio. The set was supported on crossboards in slots between two cleats on each side. By grasping the legs we slid it out and lowered it to the floor. At this time I realized I had repeated a procedure I had done so many times in the '20s, even down to the well worn tools and limited light.

Removal of the balance of the protective paper revealed a near perfect finish, no apparent crazing, but a fan shaped dull pattern on the top. A finger touch proved the pattern to be dust and a little sleuthing located a pinhole opening in the carton on line with the console top surface. In fifty years the carton breathing had deposited the dust under the protective paper in this sector pattern.

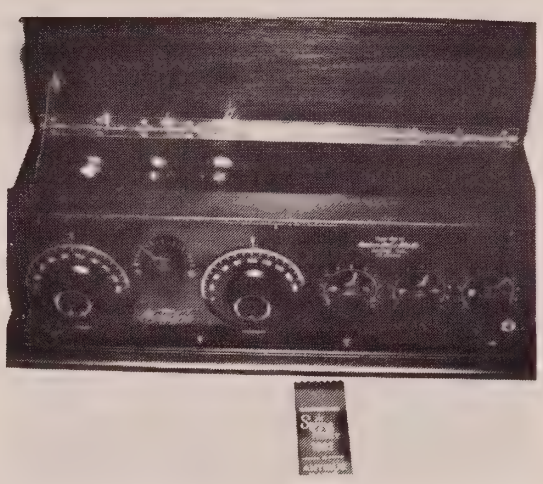
The set was complete with instruction booklet, caution tags, and tube shields, but without tubes. It is my recollection that radios (except RCA) were shipped and priced without tubes until Majestic started including tubes in the late '20s. Now a humorous situation developed. Ross Smith had purchased several unopened cartons of Perryman tubes discovered in the basement of this building several years ago. To complete the set accurately the owner had to buy back a set of tubes from Ross.

As this is being written the set is on display in a downtown window with a descriptive poster listing a telephone number for more information. Every time I pass by I am reminded of this exciting experience which I wish to share with other ARCA members.

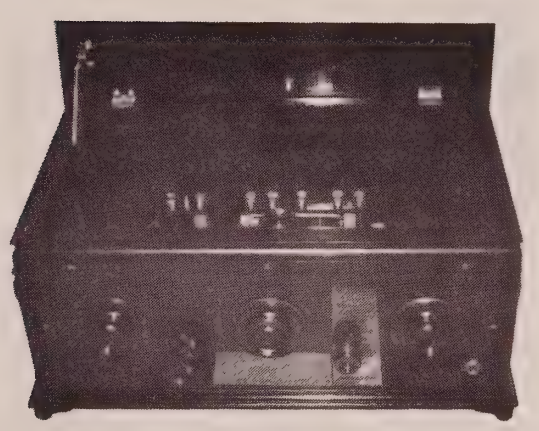
TENTH ANNIVERSARY MEET



Marconi Balanced Detector



Western Coil Radiodyne



Tuska Superdyne Jr.

Marconi Phone

Radio Products

Lauren Peckham's 1914 Clapp Eastham

Fran and Jack Davis

Helen and Bruce Kelley

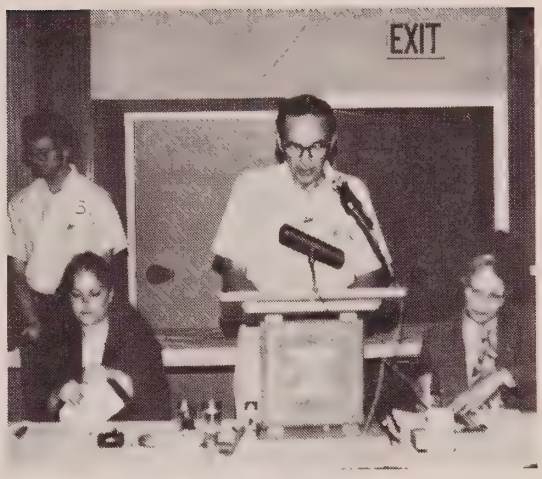
Flo and Gordan Eckland

R. Muchow, L. Raynor,
R. Williams. L. Wright

Carole and Ralph Muchow

Ross Smith

R. Wovern, R. Brewster, A. Douglas
J. Wolkonowitz, R. MacFarland



C. Days, C. Mager, G. Eklund,
M. Johnston

J. Caperton, R. Muchow,
Jayce Peckham

S. Brewster, R. Drake, N. Giganti

L. Lindauer, B. Mager, N. Hertz

T. Phillips, B. Kelley, L. Wright

OLD EQUIPMENT CONTEST ARCA 1982

Judges: Ross Smith, Larry Wright, John Caperton, Ralph Williams

CLASS 1 — CRYSTAL RECEIVERS 4 entries

First	Dick Brewster	Marconi Balanced Detector
Second	Les Rayner	Monarch
Third	Emmett Smith	Marvel Box
Special Award	John Haught	Homebrew & Display

CLASS 2 — REGENERATORS 7 entries

First	John Williams	Radiola III & Box
Second	Emmett Smith	Crosley Pup & Bonzo
Third	Bob & Helen Corum	Crosley Pup & Box
Special Award	Gary Schneider	Jones Radio

CLASS 3 — TUNED RADIO AMPLIFIERS 3 entries

First	John Williams	Radio Products
Second	Clay Seidel	Master Phone
Third	Scott McWilliam	Gilfillan

CLASS 4 — SUPERHETERODYNE 1 entry

Second	Don Johnston	Scott Super 12

CLASS 5 — REFLEX 3 entries

First	Ralph Muchow	Acme
Second	Paul Corrette	Tuska

CLASS 6 — HOMEBREW 2 entries

First	Ralph Muchow	Peterson
Second	John Haught	One Tube Regen

CLASS 7 — ALL OTHER RECEIVERS 2 entries

First	Clay Seidel	AK90
Second	Ted Phillips	Radiodyne
Third	Ross Smith	Emerson

CLASS 8 — ELECTRONIC TV 1 entry

First & Best of Show	Dick Brewster	Marconi Phone

CLASS 9 — TUBES 2 entries

First	Dick Brewster	Experimental Kinescope
Second	Lauren Peckham	Image Dissector

CLASS 10 — DOCUMENTS 4 entries

First	John Williams	Display with Microphone
Second	Robert Betz	Display with Radio Map
Third	Emmett Smith	Thompson & Poincare Pamphlets
Special Award	Bruce & Charlotte Hager	Marconi Badge

CLASS 11 — DETECTORS 4 entries

First	Dan Gaidosz	Adams Morgan
Second	Les Rayner	AC Gilbert
Special Award	Emmett Smith	Rotable Detector

Ye Old Swap Shop

All ads and Swap shop items are printed in the Gazette free of charge. We do ask that you write your ad on a separate sheet of paper, type if possible, or print, and be sure to include your name and address. We reserve the right to edit all ads. ARCA is not responsible for any transactions, of course.

FOR TRADE: Kennedy 220 receiver with matching 525 amplifier. Kennedy needs to be restored. Want Federal 59 or 61 receiver in good condition. Also have some rare tubes VT3 and 204A for DeForest spherical audion or radios.

James Cirner, 13366 Pastel Lane, Mountain View, California 94040

FOR SALE: 1926 Kolster 6D, excellent, no tubes, $55. 1934 Philco 84B cathedral, transformer works, $25. 1935 Fairbanks & Morse 57T0, very good, works, $25. 1940 Hallicrafters S-38B, excellent working, $10.

Andrew Mooradian, 5 Priscilla Lane, Winchester, Massachusetts 01890

FOR SALE: Pilot 3" TV, Ak sets in wood & metal cabinets, misc. battery sets, speakers, headphones, parts, magazines & radio books. Send SASE for list.

Bill Laverty, 1012 W. Geneva Street, Egg Harbor, New Jersey 08215

FOR SALE: Various parts, radios & horn speakers. 01A tubes tested good, $4 each. SASE for list.
WANTED: Western Electric equipment, G.E. meter for WE-CW936.

Robert J. Corum, 125 Locust Avenue, Wallington, New Jersey 07057

FOR SALE: Battery eliminators for 1.4, 2.0, 3.3, & 6.0 volt sets. Regulated filament current up to 1.25 amps. 3 plate supply voltages of 135, 90, & 45 volts. "C" bias voltage up to 22 volts. Available as a printed wiring board assembly or in an oak cabinet. For more information, send SASE.

Peter Yanczer, 835 Bricken Place, St. Louis, Missouri 63122

FOR SALE: 1932 Emerson Allwave, Tombstone, excellent, working, $40. Type 80 solid state replacement tubes, $6.

Andrew Mooradian, 5 Priscilla Lane, Winchester, Massachusetts 01890

FOR SALE: Philco-Tropic Model 960. A limited production all band radio, made by Philco in mid 1940's for export to Latin America & Africa. Uses loctal tubes & is quite rare in this country. Table model radio with a finished mahogany cabinet.

Bill Wilson, 792 Wooded Road, Jenkintown, Pennsylvania 19046

FOR SALE: Radiola 18 working (w/hood), $60. U.S. Navy RBM4 shortwave set w/power supply & speaker, working, $75. Philco 84B cathedral, working, $85. AK 35 (audios o.k.), $35. SASE for list of radios, tubes, literature.

Ron Boucher, 376 Cilley Road, Manchester, New Hampshire 03103

WANTED: Help! I need a chassis (Model 54) for my "New Buddy" Crosley. It is a right-hand, drum-dial unit. Check your spare bakelite panels. I desperately need one for a Crosley "XV" or "X" receiver. Even an incomplete or junker chassis with parts missing is o.k. Got any Crosley porcelain sockets?

David Crocker, Tavern Path, Plymouth, Massachusetts 02360

WANTED: Schematic and operating instructions for Superior 1280 tube tester. Also base for RCA UZ 1325 speaker.

Bill Jelinek, 128 N. Stevens, Rhinelander, Wisconsin 54501

WANTED: Plug in coils for National 58C, Series R-39. Consists of two to a set. Looking for Nos. 62 & 63. Have sets for AGS & 58C for trade or cash.

Les Rayner, 5512 N. 71st Place, Scottsdale, Arizona 85253

WANTED: Kodel C11, one tube set, 1924. Pg. 121, Vintage Radio.

Jack Wallace, 5516 Gilbow Avenue, River Oaks, Texas 76114

WANTED: Plug in coils, audios and rheostat for Grebe CR-18 Special.

Bob Lane, 2301 Independence Avenue, Kansas City, Missouri 64124

WANTED: Atwater Kent radios, advertising & literature. Radios should be complete & working. Table, console & auto. Advertising should be mint. (In-store display, promotional pieces, giveaways, magazines.) All Ak literature wanted. Give price in first letter.

Arthur Axelman, 19652 Weeburn Lane, Tarzana, California 91356

WANTED: No. 1768 Pilot lamps, midget screw, 6 volts @ 0.2 amp rating.

Fred Butterfield, Rt. No. 3, Box 394, Williamstown, New Jersey 08094

WANTED: Speaker to match Radiola 18.

M. B. Gaskins, P.O. Box 66, Campbellsville, Kentucky 42718

WANTED: AK 21, 36, 50. Also TA unit 3812 — used for 10B B/B. Will pay cash!
FOR SALE: Hallicrafters S38, SX15, S20 (not R), DeForest/Crosley Gem Box w/spkr., Murdock M26 (disassembled/complete), Canadian Westinghouse Model 57 Special (w/01A's), pick-up only.

Fred Creed Vesdz, Apt. 503, 283 Fairway North, Kitchener, Ontario, Canada N2A 2P1 Phone: (519) 579-8090

WANTED: Radiola Balanced Amplifier; good lids for Ozarko Senior S-1 and Kolster 6D; Dial lamp hoods for Brunswick 5KR, and Radiolas 17 & 18. Will pay cash or have lots to swap.

Rod Goodwin, Box 1854, Ponoka, Alberta, Canada TOC-2HO

WANTED: Martin, Vibroplex, McElroy, Bunnell, and Speed-X bugs for my collection. Need junkers for spare parts. Also need good mill.

Neal McEwen, K5RW, 1128 Midway, Richardson, Texas 75081

FOR SALE: Back in business from hospital, now o.k. State your wants with SASE. New list available. Many items ready for prompt shipment. Slight delay on specials. U.S. Postal money orders or cash only. No checks, as I am unable to drive car to bank as yet.

Keith Parry, 17557 Horace Street, Granada Hills, California 91344

WILL BUY OR SWAP for Pooley AK10, David Grimes 3XP or cabinet for Hammerlund Roberts.
FOR SALE: AK green & brown enamel paints (not wrinkle) $4.25 ppd. for 4 oz.

Don Patterson, 636 Cambridge Road, Augusta, Georgia 30909

WANTED: Chassis for Philco 60 or Zenith 5-S-29, escutcheon plate & speaker. Bolts with ornamental Phillips heads for Philco 20. Also knob for AK cathedral.
FOR SALE: Dayfan 5 tube battery set with Jewett speaker. Echophone cathedral, Jackson Bell cathedral — many more. Send SASE for complete list.

Gary C. Hill, 1507 Ridge Avenue, New Castle, Pennsylvania 16101

FOR SALE: Philco-Stromberg and miscellaneous radios. Test equipment. Hallicrafters Sky Champion and S-38B. Books and about 100 tubes of the '40s — TV and peanut tubes. No very early types. Must dispose of all soon.

Joane H. McDonald, 660 N. Wade, Washington, Pennsylvania 15301

FOR SALE: Many thousands of tubes in stock at all times — constant turnover! State your needs with SASE. Fast deliveries from stock, otherwise will back order on request. Prices reasonable!! Stock items of late '20s on up.

Rick Weibezahl, 305 Belvidere Avenue, Washington, New Jersey 07882

FOR SALE: Super-Hets: Tropadyne, Lavoy Novadyne, Nordstrom, Remler Super Eight, Melodyne, Priess Straight Eight, Neutrodynes: Heraldyne, Eagle, Stromberg Carlson, Deresnadyne, Arborphone, Fada, Ware, Pearson, Pfanstiehl, Rea reflex, Acmeflex, Harkness reflex. SASE.

Joe Horvath, 522 Third Street, San Rafael, California 94901

WANTED: Western Electric tubes, microphones, mixers, amps, tweeters, drivers, speakers, horns, literature, etc.

David Yo, P.O. Box 832, Monterey Park, California 91754

The Antique Radio Gazette is indeed a fine publication, by itself more than worth the yearly dues in the organization, and I will eagerly await the next issue, as I do the AWA Bulletins.

My membership in ARCA has already "paid off" as I found an article listed in your back issues on the Western Elec. Mod. 14-A amp. . . and I just picked one up in the Rochester, N.Y. hamfest flea market! It needs work, and I could find nothing on it in my archives. Then, PRESTO! . . . I saw it listed in your back issues! So, please send me Vol. #9, No. 1. . . also, Vol. 6, #4, Vol. 4, #1, Vol. 8, #4. Enclosed is my check for $4.00.

R. W. Schaumleffel
417 East State St., Olean, New York

CHAPTER NEWS

THE ANTIQUE RADIO CLUB OF ILLINOIS AN AFFILIATE OF THE ANTIQUE RADIO CLUB OF AMERICA IN COOPERATION WITH THE INDIANA HISTORICAL RADIO SOCIETY AND THE MID-AMERICA ANTIQUE RADIO CLUB PRESENTS

RADIOFEST '82

August 7, 1982 at the Holiday Inn, 345 River Bluff Rd., Elgin, IL
(Route 31 South exit from the I-90 Northwest Tollway)

THE PROGRAM

I. All-day swap-sell session
II. Several tech sessions including: restoring radio cabinets
III. Radio contest — categories:
Class I — A.C. receivers
Class II — Battery receivers
Class III — Crystal sets
Class IV — Horn speakers
Class V — Homebrew receivers
Class VI — Tubes
Class VII — Advertising
First, Second, and Third to be awarded in each class plus Best of Show. Contest entries must be in contest room by 11:00 a.m.
IV. Saturday afternoon: Tour Ralph Muchow's fantastic museum
V. Saturday night: Banquet and awards presentation
plus an interesting program

Registration: Pre-registration $2.00 — Registration on the day of Meet $3.00
Banquet Tickets: $9.75
Motel Rooms: We have guaranteed 20 rooms with a 10% discount — Contact the Holiday Inn at the above address or call 312-695-5000 and request reservations for: The Antique Radio Club of Illinois Meet in August

Stay over Sunday and attend the Santa Fe Hamfest (one of the largest in the country) — Directions at the Meet

Yes, I plan to attend the Meet
Yes No I plan to attend the banquet
Make banquet and pre-registration checks to: ARCI and send to: Joe Willis, 525 Oakdale #524, Chicago, IL 60657
If possible, please reply by April 30th.

Talk and tech sessions:
Lee Wease and David Zamjahn on restoring radio cabinets
Mike Stosich on Scott radios
John Caperton presents the Leutz story

The banquet will include door prizes:
Sterling silver pen and pencil set by Anson
Lifetime membership in the various clubs
RCA combination T.V., radio, and clock
And an interesting program emceed by Randy Renee

Don't forget the tour of Ralph Muchow's fantastic radio museum.

News From The Charleston, W. Va. Chapter of ARCA

The Spring Edition of the Gazette was captioned "News from The Charlestown, West Virginia, Chapter of ARCA. There is a Charlestown in the northern part of West Virginia; however, the Capital City, Charleston, is our location.

One of our members, Harold Rulen, Secretary of our Club, generated some desirable publicity for our local chapter by being featured in Appalachian Electric Power Company's monthly publication, THE ILLUMINATOR. The story concerned Harold's collection of old radios and his activities in ARCA. The Charleston, West Virginia's evening newspaper, THE CHARLESTON DAILY MAIL, prompted by the ILLUMINATOR's article, sent a reporter and photographer to Harold's home for an interview and pictures. A large color picture of Harold and some of his treasures along with a good article appeared on the front of the City Page Section of the April 21, 1982 edition of the paper.

President, Lloyd McIntyre, has received a request to rebuild some antique radios owned by a collector who is not a member of ARCA. This request is being considered as a means of starting a process to augment the club's treasury and providing restoration and training of some of our new members.

To promote family interest in the activities of our local club, we are including the wives in the April, May, and June monthly meetings. These meetings are being held in members' homes.

Member, Clyde Trivette, has provided the club with considerable printed matter pertaining to early radios. Selected items from this material have been reproduced for distribution to our members by Vice President, Tom Resler.

J. A. Moore Editor-Reporter

ARCA 10 YEAR MEMBERS

57 charter members still enrolled in ARCA — congratulations!

Jack Allison
Richard Ammon
William Baker
Ralph Barnett
Richard Brewster
Peter Brickey
John Caperton
Robert Carroll
Mel Comer
Bill Condon
Donald Daykin
Frank Decker
Dexter Deeley
Bill Denk
Earl Drake
John Drake
Paul Everett
Vernon Freichels
Dan Gaidosz
Paul Giganti
George Greene
Dr. Russ Hanselman
Alvin Heckard
William Hennen
Silvio Hernandez
Joe Horvath
Stanley Jacobs
John Johnson
Burt Katz
Ray Klusewitz
Serge Krauss
Dr. Bob Lane
Thorn Mayes
Ron McClellan
Dave McKenzie
Morgan McMahon
Bob Merriam
Dr. Ralph Muchow
Lawrence Peckham
Jim Pragnell
Dick Ransley
Henry Rotklein
Joe Sabo
Carol Schilo
Emmitt Smith
Ross Smith
Aaron Solomon
Kenneth Spriggel
Ashman Stoddard
Ed Taylor
C. A. Trivette
James Van Sant
William Wall
Tom Wherry
Ralph Williams
James Winnette
Russell Worthy

OUR NEWEST MEMBERS

Arthur W. Kaucher, Brookfield, IL
Michael Scilipoti, Woolford, MD
Frank Mulvihill, Orange, NJ
John T. Hinton, Bristol, PA
James Newberry, Atlanta, GA
Dan Howell, Grand Forks, ND
Fred Mixon, Los Angeles, CA
R. Neal Johns, Oxnard, CA
Marc de Moor, De Pinte, Belgium
R. Edward Ripley, Rochester, MN
Michael Mullen, Columbia, SC
Joseph Zammit, Winston-Salem, NC
Jack S. Wallace, Ft. Worth, TX
Andrew E. Mooradian, Winchester, MA
John B. Sevier, Baltimore, MD
A. T. Molonowski, Goshen, NY
Ronald M. Tassi, Baltimore, MD
Daniel L. Kugler, Wernersville, PA
Lawrence F. Harding, Nashville, TN
Raymond Barker, Badin, NC
Carl B. Bryant, Lexington, KY
Robert W. Schaumleffel, Olean, NY
Lawrence M. DiBarry, Charleroi, PA
Ronald R. Bond, Bridgeton, NJ
Donald W. Matteson, Jackson, MI

The Antique Radio Gazette is published quarterly in Madison, Connecticut.

Send ARTICLES to be published to:

John E. Drake
23 East Wharf Road
P.O. Box 942
Madison, Connecticut 06443

Send COPY for ADS to:

Mel Comer
205 Roberts Road
Ardmore, Pennsylvania 19003

APPLICATIONS for membership and payment of Dues to:

Jane & William Denk
Secretary/Treasurer
81 Steeplechase Road
Devon, Pennsylvania 19333

All matters re the OLD EQUIPMENT CONTEST to:

Ross Smith
1133 Strong
Elkhart, Indiana 46514

Editor for ANTIQUE TELEVISION receivers:

Jack Davis
63 Midchester Road
White Plains, New York 10606

Contributing Editor

John Milton Williams
53 Evergreen Avenue
Westport, Connecticut 06443

It is our intention to have the Gazette published as closely as possible to the following dates:

March 31
June 30
September 30
December 30

The closing dates for receiving material of all kinds, in order to have it appear in the current issue would be:

February 15
May 15
August 15
November 15

Officers of ARCA:

President

John E. Drake
23 East Wharf Road
P.O. Box 942
Madison, Connecticut 06443

Vice President

Ross Smith
1133 Strong
Elkhart, Indiana 46514

Secretary/Treasurer

Jane and Bill Denk
81 Steeplechase Road
Devon, Pennsylvania 19333

Official Photographer

Dr. Larry Wright
131 Hilltop Drive
Lake In The Hills,
Illinois 60102

Yearly dues of $10.00 U.S. currency are payable to ARCA January 1, of each year for members in the USA, Canada, and Mexico. Overseas dues are $12, which includes airmail postage.

The Antique Radio Club of America was incorporated in the State of Kentucky, in September, 1972. The first meeting was held at the Marriott Motor Inn, Washington, D.C., on September 23, 1972. At this meeting, by-laws were read and approved and directors selected. We feel that the inception of this Club is a giant step in bringing together those individuals whose chief interest lies in the area of early radio. We invite all collectors and historians of the subject to join the Club. A note to William E. Denk, Secretary, 81 Steeplechase Road, Devon, Pennsylvania 19333, will bring you an application blank by return mail.

Copyright © 1982 The Antique Radio Club of America, Inc.

MEMBERSHIP LIST
THE ANTIQUE RADIO CLUB OF AMERICA, INC.

NOTE: Except for those members who have requested that their names and addresses be omitted from the published list, the list is complete as of June 30, 1982.

Copyright 1982 © The Antique Radio Club of America, 81 Steeplechase Road, Devon, PA 19333

Charles Albion	440 69th, Niagara Falls, NY 14304
William P. Albohn	150 Walter Avenue, Thornwood, NY 10594
Charles T. Allen	6746 Parkinsonia Drive, Miami Lakes, FL 33014
John L. Allen, Jr.	P.O. Box 11361, Charlotte, NC 28220
Carmen Ambroggio, WA9GFD (Marie)	5640 North Prospect Avenue, Norwood Park, IL 60631
Richard T. Ammon	1955 Allan Lane, Newburgh, IN 47630
John M. Anderson	17 Cedar Lane, Scotia, NY 12302
Donald Arpin	13815 Lincoln Avenue, Dolton, IL 60419
Robert Arrowsmith, W4JNN	3505 Woodburn Road, Annandale, VA 22003
Paul Ash	3006 Ashview Terrace, Louisville, KY 40217
Jeffrey E. Aulik	803 North Chicago Avenue, Rockford, IL 61107
Robert Avery	3712 Glorieta N.E., Albuquerque, NM 87111
Arthur Axelman	19652 Weeburn Lane, Tarzana, CA 91356
L. F. Babcock (Dorothy)	8095 Centre Lane, East Amherst, NY 14051
Glenn Baird	809 Glenwood, Ottumwa, IA 52501
Gilferd L. Baker	112 Pearle, Emden, IL 62635
William Baker, W7IYY (Florence)	1932 S.E. Troutdale Road, Troutdale, OR 97060
Craig Ball, KA0HBP	1412 West Linn, Marshalltown, IA 50158
Herb Balmer	610 North 14th, Marysville, KS 66508
Merrill W. Bancroft	169 South Row Road, Townsend, MA 01469
Arthur J. Bardish	4042 Herman Avenue SW, Grand Rapids, MI 49509
Raymond Barker	P.O. Box 355, Badin, NC 28009
Steve Baron	2039 Stuart Court, Apartment 6, Lexington, KY 40504
Charles C. Barone (Bernice)	5628 North Prospect Avenue, Norwood Park, IL 60631
James H. Barrows, W7BCT (Mona, WA7UFS)	5121 41st Avenue S.E., Bothell, WA 98011
John G. Bayusik	78 East Side Drive, Wallingford, CT 06992
William Beaton	79 Meadowlands Drive West, Nepean City, Ontario, Canada K2G 2R9
James A. Beaver, Jr., W3AHZ	1015 Edge Hill Road, Roslyn, PA 19001
Clarence Bedker	66 Cloverside Court, West Seneca, NY 14224
Brian C. Belanger	616 Nelson Street, Rockville, MD 20850
Floyd L. Bennett (Bernita)	7736 Kirkville Road North, Kirkville, NY 13082
William E. Berger	29 East 12th Street, New York, NY 10003
Howard Bergstrom	5142 Grant Street, Omaha, NE 68104
Robert Betz	R.D. 1, Rt. 12, Earlville, NY 13332
Dewitt Bills	5237 Upton Avenue, North, Minneapolis, MN 55430
Paul Bischoff	1312 North 6th Street, Burlington, IA 52601
Kenneth Blakeman (Arlene)	R.D. 3, Fulton, NY 13069
George F. Boettcker, Jr.	Box 255, Dingman's Ferry, PA 18328
Ronald R. Bond	59 Woodcrest Avenue, Bridgeton, NJ 08302
Hubert W. Booher	2305 Farnswood Circle, Austin, TX 78704
Cleon L. Boothe	10853 101st Avenue North, Seminole, FL 33542
Jody M. Boucher, WA1ZBL	128 Holyoke Street, Easthampton, MA 01027
Ronald Boucher	376 Cilley Road, Manchester, NH 03103
Geoffrey G. Bourne	4512 Brown Street, Apartment B, South Charleston, WV 25309
Dale R. Boyce	2431 Haanstad Road, Eau Claire, WI 54701
William M. Boyd	5021 Dividend Drive, Washington, PA 15301
Charles W. Bradley (Virginia)	10720 Zenith Avenue, Bloomington, MN 55431
Randolph W. Branch, KA4NIR	Rte. 4, Box 123-A, Powhatan, VA 23139
William J. Bresnan	30 Axtell Drive, Scarsdale, NY 10583
Frank L. Brewster, Jr.	P.O. Box 615, Baxter Springs, KS 66713
Richard Brewster	454 Diablo Drive, Pittsburgh, PA 15241
Peter Brickey	25109 Hatton Road, Carmel, CA 93921
Charles F. Bridgewater	73 East York Street, Akron, OH 44310
J. Douglas Brighton	Box 158, Hanover, Ontario, Canada N4N 3C4
David Brodie, W6PGQ	315 Cotton Street, Menlo Park, CA 94025
John Thomas Brooker (Marie)	730 Randolph Road, Mogadore, OH 44260
David W. Brower	236 Welch Street, Camden, SC 29020
Belmear D. Brown (Janet)	814 North Market, Cortez, CO 81321
Guy Brown	94 Arlington Street, Meriden, CT 06450
Joseph E. Brown	Box 327, Sudbury, MA 01776
Richard Brown	117 Meisel Avenue, Springfield, NJ 07081
William David Brown	2518 Wallace Avenue 3, Louisville, KY 40205
Carl B. Bryant	269 Melbourne Way, Lexington, KY 40503
Glen A. Buell	Box 21, R.R. 1, Crown Point, NY 12928
Malcolm D. Burdick	Station Road, Hampton, CT 06247
Thomas H. Burgess	P.O. Box 9769, Little Rock, AR 72219
Betty L. Burke	c/o Dr. R. W. Muchow, 107 Center Street, Elgin, IL 60120
Frederick Butterfield	Rte. 3, Box 394, Williamstown, NJ 08094

California Historical Radio Society	c/o Allan Bryant, 38262 Ballard Drive, Fremont, CA 94536
Les Cammer, WB6OLL	4913 Rhoads Avenue, Santa Barbara, CA 03111
John Hays Caperton II (Marian)	3114 Boxhill Court, Louisville, KY 40222
Gunnar W. Carlson (Mary Glynn)	1195 Cedar Avenue, Elgin, IL 60120
Robert L. Carroll	P.O. Box 268, Brookside, NJ 07926
George M. Carter (Trudy)	140-L Broadmoor Lane, Winston-Salem, NC 27104
Hugo Castelli (Jennie)	1406 East 5th Avenue, Joliet, IL 60433
H. Lincoln Chadbourne	530 Midway Street, La Jolla, CA 92037
Larry Chambers	5026 Suter Drive, Nashville, TN 37211
Wallace Chandler	927 Washington Avenue, Apartment B-10, Lansing, MI 48910
Wayne Chapman, W8TKR	1130 North Lake Parker Drive, Lakeland, FL 33801
Arnold L. Chase, WA1RYZ	9 Rushleigh Road, West Hartford, CT 06117
Raymond F. Chase, KA2JQG	1350 Marlborough Avenue, Plainfield, NJ 07060
Westley M. Chatellier, W5DPM	1950 Chevelle Drive, Baton Rouge, LA 70806
William W. Cheney	7948 Miramar Boulevard, Miramar, FL 33023
James P. Chew	900 Fourth Avenue, Jeannette, PA 15644
Albert Chiostri	1622 South 51st Avenue, Cicero, IL 60650
Jim Cirner	13366 Pastel Lane, Mountain View, CA 94040
Brook Clarke	12544 Corbetta Lane, Los Altos Hills, CA 94022
John G. Cleveland	504 East South 2nd, Box 52, Findlay, IL 62534
Hugh Coachman, Jr., WA4ILS	P.O. Box 2345, Lakeland, FL 33803
Laurence S. Colebank, K0DWX	742 Albany Drive, Bismarck, ND 58501
Melvin R. Comer	205 Roberts Road, Ardmore, PA 19003
William J. Condon, Jr.	1434 Princeton, Apartment B, Santa Monica, CA 90404
Frank H. Cooper, W5VID	4215 Ravine Drive, Friendswood, TX 77546
Robert & Helen Corum	125 Locust Avenue, Wallington, NJ 07057
Paul L. Corrette (Betsey)	17 Mayfair Road, Bloomfield, CT 06002
Joseph & Nancy Cote	P.O. Box 445, Charlton City, MA 01508
Fred Creed, VE3DZ	Apartment 503, 283 Fairway North, Kithchener, Ontario, Canada N2A 2P1
Joseph Cro	186 Hickory Hill Road, Philadelphia, PA 19154
David H. Crocker	Tavern Path, Plymouth, MA 02360
Gerald W. Cunningham, W1MMV	Upper Camp Street, Rte. 4, Barre, VT 05641
Joseph E. Cunningham	23 West 675 Ardmore, Roselle, IL 60172
Edward Dauphin, Sr., K1BKB	143 White Street South, Burlington, VT 05401
Jack Davis (Fran)	63 Midchester Avenue, White Plains, NY 10606
Donald R. Daykin	1425 Seymour Drive, Vestal, NY 13850
Charles A. Days	30 Sagamore Drive, South Dartmouth, MA 02748
Donald L. Dean	1711 Colleen [illegible]t, Sarasota, FL 33581
Peter DeAngelo	590 Hampton[illegible] Road, Cambell Hall, R.D. 1, New York, NY 10916
Steven Paul DeBord	Rte. 1, Box 60-A, Milton, WV 25541
Frank N. Decker, Jr.	1342 Broad Street F, Syracuse, NY 13224
Dexter T. Deeley	8 Briar Circle, Rochester, NY 14618
Oscar J. Delcastillo	413 Vine, Clearfield, UT 84015
Marc DeMoor, ON1GR	Vredestraat 13, B-9720 De Pinte, Belgium, Europe
William E. Denk, W3IGU (Jane)	81 Steeplechase Road, Devon, PA 19333
Henry Dequasie	P.O. Box 5193, River Station, Rochester, NY 14627
John Devonchik, WB4LUT	1801 N.W. 88 Way, Pembroke Pines, FL 33024
Lawrence M. Di Barry	855 Lincoln Avenue, Charleroi, PA 15022
Robert E. Dickerson	1907 Lynn Lea Road, Shively, KY 40216
Hans O. Dietze	'Providence,' 513 West Front Street, Media, PA 19063
Brent V. Dingman	c/o Historical Radio Services, P.O. Box 15370, Long Beach, CA 90815
John Doak, W2GHF	45 Allen Drive, Woodstock, NY 12498
Robert H. Dome	P.O. Box 80412, San Diego, CA 92138
Alan S. Douglas	Box 225, Pocasset, MA 02559
Earl R. Drake, W1KBV	Box 199, Raynham, MA 02767
John E. Drake, KA1GJX (Ruth)	23 East Wharf Road, Box 942, Madison, CT 06443
John B. Drew	97 Franklin Street, Westerly, RI 02891
Larry Duff	2144 A Lilly Drive, Charleston, WV 25312
George K. Durfey	912 La Mesa Drive, Menlo Park, CA 94025
Jimmy Edington (Nita)	9947 Rocky Hollow Road, La Porte, TX 77571
Gordon G. Eklund (Florence)	6518 Gunpowder Lane, Prospect, KY 40059
Floyd W. Engels	Davis Road, Colden, NY 14033
Chester England	98 Montague Avenue, South Zanesville, OH 43701
Ero Erickson, KA9DYS	4024 North Pioneer Street, Chicago, IL 60634
Ralph Ernstein, W6SPQ	18934 Celtic, Northridge, CA 91326
Albert A. Evangelista, W3ZIP	701 Warm Spring Road, Chambersburg, PA 17201
Barry T. Evans	11115 East 50th Street, Kansas City, MO 64133
Richard Evans, WA3FOQ	P.O. Box 491, Souderton, PA 18964
Daniel O. Eyring	2 Duggan Road, Acton, MA 01720
Warren H. Falls	18 Conant Road, Lynn, MA 01904
Christian R. Fandt, WB2WAO	111 Harding Drive, Jamestown, NY 14701
John J. Farrell	168 Maiden Lane, Oakland, CA 94602
Mike B. Fehrer, N4FS	9100 Traveller Street, Manassas, VA 22110
Jerry Finamore	R.D. 2, Box 623, New Castle, PA 16101
Francis H. Fingado	2752 South Vrain, Denver, CO 80236
James W. Finn	24709 Meadow Lane, Mt. Clemens, MI 48043
William B. Fizette, K3ZJW	630 Main Street, Stroudsburg, PA 18360

Albert Fortin	73 5th Avenue, Madawaska, ME 04756
Richard Foster	12 Shawmut Avenue, Cochituate, MA 01778
Conrad J. Fowler	826 North Fairway Road, Northwoods, Glenside, PA 19038
William R. Fox, Jr., WB6NMP (Loretta)	624 Jefferson Court, San Jose, CA 95133
Andrew Francella	111 Rockland Avenue, Larchmont, NY 10538
Chester B. Franz, W0NFA	1 Charolais Drive, Bay, MO 65041
James A. Fred	R 1, Box 41, Cutler, IN 46920
John W. Fred (Mary)	600 Debra Lane, Elizabethtown, KY 42701
Vernon Freichels (Arlene)	1025 Pleasant Street, Saulk Centre, MN 56378
Neil Friedman	6616 River Trail, Bethesda, MD 20034
John J. Fritz (Kathy)	736 Harper Avenue, Lancaster, PA 17601
George Fulkerson	P.O. Box 1735, La Jolla, CA 92038
Doug & Jan Furney	10484 West Arkansas Drive, Lakewood, CO 80226
Dominic Fusco, Jr., KA1CA	99 Glenwood Drive, Wethersfield, CT 06109
Daniel S. Gaidosz, W1LFU (Norma)	342 West River Road, Orange, CT 06477
M. B. Gaskins, WB4MNZ	227 Risen Avenue, P.O. Box 66, Campbellsville, KY 42718
Alan M. Germond	211 Brenda Lane, Columbia, MO 65201
Paul Giganti, W6GVY (Nina)	2429 San Carlos Avenue, San Carlos, CA 94070
G. G. Glazier	3031 El Caminito, La Crescenta, CA 91214
John L. Glisson (Doris)	1303 Pump Road, Richmond, VA 23233
Robert J. Goad, WD4CDU (Joyce)	8441 Flagstone Drive, Tampa, FL 33615
E. J. J. Gobrecht	122 East Chestnut Street, Hanover, PA 17331
Kenneth Godfrey	475 Oyster Ponds Lane, Orient, NY 11957
Michel Goemans	CPO Box 1399, Tokyo, Japan
Christopher G. Golodich, KA2MGI	23 Benson Street, West Haverstraw, NY 10993
Samuel Goodman	8864 Alton Street, Philadelphia, PA 19115
Steve Goodman	402 A-2 New Gate, Salem Harbour Apartments, Andalusia, PA 19020
Rod Goodwin	Box 1854 Ponoka, Alberta, Canada T0C 2H0
Steven C. Grabowski (Glenda)	4401 Hamilton, Midland, MI 48640
Howard W. Granoff	2445 Lyttonsville Road, Silver Spring, MD 20910
James W. Grant (Dorothy)	2635 Central Park Avenue, Evanston, IL 60201
Jack Gray	1162 Broadmoor Drive, Napa, CA 94558
Raymond Green	720 South Market Street, Mechanicsburg, PA 17055
George Greenberg	821 Porter Street, Philadelphia, PA 19148
Ken Greenberg	4858 West Lee, Skokie, IL 60077
George Greene (Betty)	7612 Westmoreland, St. Louis, MO 63105
Richard Groshong	6604 Kent Drive, S.E., Cedar Rapids, IA 52402
Hubert D. Hagan	3937 Forest Avenue, Downers Grove, IL 60515
James J. Hager	215 North Central 1-South, Clayton, MO 63105
Perrin Hamilton, Jr.	101 Woodbine Avenue, Narberth, PA 19072
R. Leighton Haney	1536 Evergreen Lane, Berwyn, PA 19312
Russell C. Hanselman, M.D. (Helen)	805 South Indiana Avenue, Auburn, IN 46706
Pete Hanson (Annette)	R.D. 1, Box 542X, Kennedy Hill Road, Stewartsville, NJ 08886
Stephen Hanson	2136 Sycamore, Longview, WA 98632
Bruce Harbeck	1316 38th Street, Sioux City, IA 51104
Lawrence F. Harding	5024 Brevity Lane, Nashville, TN 37220
Ron R. Harmon	9131 Gail Court, Thornton, CO 80229
Dave Harms	Box 1662, Gillette, WY 82716
Wren Harris	1910 Stuart Avenue, Albany, GA 31707
John W. Haught, KA3BRK (Sara)	5268 Webb Street, Aliquippa, PA 15001
George E. Hausske, W9OLE (Shirley)	1922 East Indiana, Wheaton, IL 60187
James T. Hawes (Jean)	550 Sherman Avenue, 1, Evanston, IL 60202
Bob Hay, NWVRS	5225 SE Brookside Drive, Portland, OR 97206
Hollis Hayes	730 Liberty, Lapeer, MI 48446
Alvin Heckard	R.D. #1, Box 88, Lewistown, PA 17044
Harold G. Heinaman (Catherine)	800 South 15th Street, Box 1-611, Sebring, OH 44672
William Hennen	324 Forest Avenue, Aurora, IL 60505
Robert F. Herbig, W6ME	4178 Chasin Street, Oceanside, CA 92054
David L. Herlinger (Nancy)	6110 Pecan Lane, Katy, TX 77449
Silvio E. Hernandez, ²W2BSA (Jean)	River Road, R.F.D. #1, Essex, CT 06426
Norman Hertz	17 Yucca Drive, Staten Island, NY 10312
Gary Hill	1507 Ridge Avenue, New Castle, PA 16101
David A. Himley	1028 West River Parkway, Champlin, MN 55316
Charles J. Hinkle, K4TS (Fanchon)	Rt. 11, Box 3, Fredricksburg, VA 22401
John T. Hinton	2504 Green Avenue, Bristol, PA 19007
William Hoffman (Mary)	2570 Falcon Street, East Meadow, NY 11554
David J. Hoffmeier	1014 Willow Street Pike, Lancaster, PA 17602
William R. Holly, K1BH (Fran)	26 Whipple Road, Kittery, ME 03904
John B. Holmboe	123 South Mountain View Avenue, Pearl River, NY 10965
Weldon T. Hook	R.R. 2, Box 229, North Vernon, IN 47265
Joseph Horvath, W6GPB (Thelma)	522 Third Street, San Rafael, CA 94901
Harry W. Houck	310 7th Avenue, Indialantic, FL 32903
Gary Hough	1725 North Valencia, Santa Ana, CA 92706
Dan Howell	211 Walnut Street, Apartment 7, Grand Forks, ND 58201
Gerald A. Hueber	6316 Winnebago Court, Ft. Wayne, IN 46815
John S. Huntingdon	8 Canterbury Road, New Hartford, NY 13413
William M. Hurni, W3HWT	329 Evergreen Drive, North Wales, PA 19454
Craig Huseboe, WD0GAP	2706 Nelson Road, Marshalltown, IA 50158
Robert C. Husted	280 East Boca Raton Road, Boca Raton, FL 33432

Melvin A. Israel	6 Tanglewood Drive, Essex Junction, VT 05452
Stanley Jacobs	One 8th Street, Pelham, NY 10803
Dr. Barry A. Janov	1304 Cariann Lane, Glenview, IL 60025
Sam H. Jansen, W6BBN (Rose)	304 California Avenue, Arcata, CA 95521
Mark W. Jarvis	7670 Merriman Road 204, Westland, MI 48185
Richard B. Jehlik	6915 Wright Plaza 112-L, Omaha, NE 68106
William Jelinek	128 North Stevens, Rhinelander, WI 54501
Wilfred G. Jensby, W0EOM	Box 96, Davenport, NE 68335
Conner R. Jester (Margery)	1177 Mt. Pleasant West Street, Greenwood, IN 46142
Allen L. Jochem	2047 College Avenue, Quincy, IL 62301
R. Neal Johns	1351 South Port Drive, Oxnard, CA 93033
Herbert S. Johnson	Grassy Hill Road, East Lynne, CT 06333
John W. Johnson, K8EPS	228 West Grand River, Box 17, Fowlerville, MI 48836
K. D. Johnson	Box 518, 106 South 6th, Oquawka, IL 61469
Stephen C. Johnson	3963 Terrybrook, West Bloomfield, MI 48033
Don K. Johnston, KA9KXQ (Marilyn, KA9KXR)	R.R. 1, Box 218A, Windfall, IN 46076
Donald J. Juleen, KA9BUC (Loretta)	6250 Ledge Road, R.D. 1, Sturgeon Bay, WI 54235
Lloyd L. Jury	415 West Walnut Street, Lancaster, PA 17603
Timothy Kaiser	511 Berry Avenue, Bellevue, KY 41073
Robert R. Karow	620 Cortleigh Drive, York, PA 17402
Barry Kasindorf, WA1YDL	22 Orchard Street, Newton, MA 02158
Burt Katz	8520 Fernald, Morton Grove, IL 60053
Michael P. Katzdorn	715 North Van Dorn Street, Alexandria, VA 22304
Arthur W. Kaucher	3903 Grove Avenue, Brookfield, IL 60513
Riley A. Kay, W4LMF (Catherine S.)	Route 5, Box 398, Benton, KY 42025
Bruce Kelley, W21CE	Main Street, Holcomb, NY 14469
Joseph C. Kelley	517 25th Street, Dunbar, WV 25064
William Kendrick	1126 Faye Avenue, Kemah, TX 77565
Burnette B. Kerchner	Lenhartsville, PA 19534
Arthur G. Kingsley (Gloria)	3 Glen Road, Highland Falls, NY 10928
Bill Kish	800 West End Avenue, New York, NY 10025
George Kitchen (Mildred)	137 New Bridge Road, New Milford, NJ 07646
Ben Kittredge, M.D., WA1PBR	72 Ocean View Highway, Watch Hill, RI 02891
Raymond V. Klusewitz, Jr.	825 North 2nd Street, Reading, PA 19601
Ed Knight, WB8DVP	25125 Kingshire, Southfield, MI 48075
Carl Knipfel	Rte. 3, Morton, IL 61550
Robert Kohlmann	2537 New York Avenue, Melville, NY 11747
Dr. Joseph Kouten	204 Country Road West, Colts Neck, NJ 07722
Vernon J. Kramer	4719 Ashley Drive, McHenry, IL 60050
Frank Kranta (Esther)	100 Osage Avenue, Somerdale, NJ 08083
Serge L. Krauss	141 Homan Avenue, Elkhart, IN 46516
James Kreuzer, KA2GLS (Felicia)	257 Hastings, Buffalo, NY 14215
Daniel L. Kugler	513 Lincoln Drive, Wernersville, PA 19565
ICI Bruce La Coste	USS McCloy 'F.F. 1038', FPO, NY 09578
Dr. Robert A. Lane (Doris)	2301 Independence Avenue, Kansas City, MO 64124
Lawrence Laney	3049 Thrush Drive, Melbourne, FL 32935
Charles A. Lauter	1505 SW 82 Place, Miami, FL 33144
William E. Laverty	1012 West Geneva Street, Egg Harbor, NJ 08215
Edward F. Lawlor, WB2DQV	5 Pauline, Carteret, NJ 07008
Jeff Lendaro	25 Fanton Road, Danbury, CT 06810
Charles R. Leutz, Jr.	10 Belknap Lane, Rumson, NJ 07760
J. Edward Lewis	110 Thornton Avenue, Boonville, NY 13309
Robert M. Lihou	24 Margin Street, Westerly, RI 02891
Olgierd Lindan	1404 Dorsh Road, Cleveland, OH 44121
Louis F. Lindauer	37 Yale Street, Port Jefferson Station, NY 11776
Edward Lindberg	113 Maple Drive, Bowmansville, NY 14026
August J. Link	305 Wisconsin Avenue, Oceanside, CA 92054
Robert Locke	730 14th Street South, St. Cloud, MN 56301
Joseph W. Looper	814 Roberto Drive, Newport News, VA 23601
Ira L. Lowe	3215 Granada Avenue, El Monte, CA 91731
Robert Lozier	600 East Green Street, Monroe, NC 28110
John Lucas	800 Rock Creek Road, Plano, IL 60545
Everett Ludley, KA0HGQ (Dorothy)	301 Edgewood Drive, Webster City, IA 50595
Frank M. Lynch	227 Grosscup Avenue, Dunbar, WV 25064
Michael A. Lynch, Sr.	1116 Charles Street, Louisville, KY 40204
Scott MacWilliam	10 Wyndemere Road, Bloomfield, CT 06002
George Maggs	60 Wells Street, Westerly, RI 02891
A. T. Malonowski	P.O. Box 282, Goshen, NY 10924
Lawrence Mandell	2240 Backs Lane, Placentia, CA 92670
David Manning	4519 Brown Street, South Charleston, WV 25309
Allen J. Marcovitch (Judy)	184 Alton Avenue, Toronto, Ontario, Canada M4L 2M5
Patrick Marineau, K9HF	3443 Illinois, St. Louis, MO 63118
Edward E. Martin, K8GOO (Paula)	8816 Ansonia Avenue, Cleveland, OH 44144
Donald W. Matteson	1399 Badgley Road, Jackson, MI 49203
Matthew May	5122 South Newcastle, Chicago, IL 60638
Thorn L. Mayes, W6AX	21120 Sullivan Way, Saratoga, CA 95070

George W. Mayne III	90 South Lake Street, Bergen, NY 14416
Frank E. Mazourek	P.O. Box 330, Yankton, SD 57078
Ronald E. McClellan	201 West Boot Road, West Chester, PA 19380
B. Neal McEwen, K5RW	1128 Midway, Richardson, TX 75081
Kenneth L. McIntosh	907 Radcliffe Road, Baltimore, MD 21204
Lloyd McIntyre (Patsy)	4204 Thorn Apple Lane, Charleston, WV 25312
David T. McKenzie, K0SVJ (Kay)	170 West 53rd Street, Hialeah, FL 33012
Morgan McMahon, N6VY	26451 Dunwood Road, Rolling Hill Estates, CA 90274
Michael McNeil	110 Roselyn Drive, Pittsfield, MA 01201
R. A. McNeill	P.O. Box 472, Yorkton, Saskatchewan, Canada S3N 2W4
Billie J. McPherson	1066 Finch Avenue, Pickering, Ontario, Canada L1V 1J5
Robert W. Merriam, W1NTE (Nancy)	697 Tillinghast Road, East Greenwich, RI 02818
Alan S. Mickiewicz	48 Elmwood Drive, Meriden, CT 06450
John D. Miller	3704 Bold Bidder, Lexington, KY 40502
Sam Miller	857 Scenic Hills Way, Annapolis, MD 21401
John S. Mills (Elizabeth)	3439 Janell Road, Louisville, KY 40216
Fred Mixon	4324 Lima Street, Los Angeles, CA 90011
Arthur H. Mixter	3735 Springdell Avenue, Randallstown, MD 21133
James N. Moffett	218 Shannon Lee, San Antonio, TX 78216
Anthony J. Molettiere (Sylvia)	2 Township Line Road, Souderton, PA 18964
Andrew E. Mooradian	5 Priscilla Lane, Winchester, MA 01890
J. A. Moore (Violet)	5002 Frederick Drive, Charleston, WV 25313
Louis Moore	690 Dixwell Avenue, New Haven, CT 06511
Ralph Moorhouse, W4YR	522 Hammock Road, Melbourne Village, FL 32901
Dr. Ralph Muchow (Carole)	107 Center Street, Elgin, IL 60120
Steve R. Muchow, K9AHS	7984 Carlisle Drive, Hanover Park, IL 60103
J. J. Mueller	Main Street, Manchester, VT 05254
Michael Mullen	Box 83058, University of South Carolina, Columbia, SC 29225
Frank Mulvihill	475 Burnside Street, Orange, NJ 07050
Thomas R. Myers	4199 Bishop Avenue, Detroit, MI 48224
Donald J. Myslewski, K3CHD (Marian)	359 McMahon Road, North Huntingdon, PA 15642
Dr. Franklin E. Neff	189 Carolyn Lane, Rte. 5, Nicholasville, KY 40503
Graham M. Neilson, VE3PO	72 Old Mill Road, Toronto, Ontario, Canada M8X 1G8
James Newberry	4685 East Conway Avenue NW, Atlanta, GA 30327
Gerald D. Newton (Phyllis)	Rt. 1, Box 262, Woodland, CA 95695
Frank A. Nichols, W9AKH	720 East Eldorado Avenue, Appleton, WI 54911
Bonnie Novak	2803 Spring Street, Pittsburgh, PA 15210
Stanley Novak	875 117th Terrace North, St. Petersburg, FL 33702
Larry Nutting, WD6DTC	5957 Yerba Buena, Santa Rosa, CA 95405
William H. Offenhauser, Jr.	655 Weed Street, New Canaan, CT 06840
Terry H. Ostermeier	Rte. 1, Box 137, Whitewater, WI 53190
Robert J. Paquette	443 North 31st Street, Milwaukee, WI 53208
Orval Parker	HCR, Box 133, Pocono Summit, PA 18346
Herbert L. Parsons, Jr.	5 Surrey Lane, Peabody, MA 01960
Donald O. Patterson	636 Cambridge Road, Augusta, GA 30909
Floyd A. Paul, W6THU (Dorothy)	1545 Raymond, Glendale, CA 91201
Joseph Pavek, W0OEP (Eleanor)	243 Blake Road South, Hopkins, MN 55343
Dr. Clark W. Peck	27733 Lorain Road, North Olmsted, OH 44070
Lauren A. Peckham (Joyce)	Ormiston Road, Breesport, NY 14816
Dr. Irwin L. Peterson	3115 North 61st, Lincoln, NE 68507
Rod Phillips, WA3ABC	P.O. Box 684, Bryn Mawr, PA 19010
Theodore Phillips (Marilyn)	56 Prospect Street, Dover, NH 03820
Hugo Picciani	314 7th Street, Brooklyn, NY 11215
Paul R. Pigeon (Shirley)	705 Hart Street, Essexville, MI 48732
Julius H. Pilger, K2KCB (Helen)	104 Conner Street SW, Live Oak, FL 32060
John Pisarski	114 Evans Road, Norristown, PA 19403
Howard B. Plouf (Laura)	150 Old Fuller Road Extension, Chicopee, MA 01020
Mark Pommerenck	5266 Merrill Road, Holley, NY 14470
Francis W. Pond	R.F.D. 1, Epping, NH 03042
Larry D. Porter	94 Center Street, Box 1000, Milan, OH 44846
Steve Porter	5003 Plainview Drive, Huntsville, AL 35811
James H. Pragnell	4323 Plymouth Street, Harrisburg, PA 17109
J. W. F. Puett	P.O. Box 28572, Dallas, TX 75228
William Pugh (Dorothy)	2126 East Myrtle, Phoenix, AZ 85020
Sam Diaz Pumara	P.O. Box 245, Pine Grove Mills, PA 16868
Frank Puopolo	2 Alexander Drive, West Haven, CT 06516
Robert F. Puopolo	2 Alexander Drive, West Haven, CT 06516
George W. Purnell	1638 Park Avenue, Willow Grove, PA 19090
Richard G. Ransley	9 Beldin Avenue, Sodus, NY 14551
Ed G. Raser, W2ZI	19 Blackwood Drive, Trenton, NJ 08628
Lester P. Rayner	5512 North 71st Place, Scottsdale, AZ 85253
Richard J. Reinhold	260 River Road, Winthrop, MA 02152
Thomas Resler (Theresa)	2643 Larwood Drive, Charleston, WV 25302
John W. Richardt, Jr., W2WIY (Lois)	94 Bald Eagle, Hackettstown, NJ 07840
R. Edward Ripley	1934 8½ Street SE 'G,' Rochester, MN 55901
Frederick O. Ritter, W4FI (Katherine)	930 First Place, Longwood, FL 37250

Henry Robertson	3816 Noble Avenue, Richmond, VA 23222
Dr. Melvin J. Rosenthal	507 South Maryland Avenue, Wilmington, DE 19804
Lawrence L. Rosine, W0OG	4229 West 98th Street, Overland Park, KS 66207
Edgar W. Rossig, Jr.	Box 33, 17 Main Street, New Market, MD 21774
Henry Rotklein	2215 Aspen, Richardson, TX 75081
Marino Ruggere	504 Grill Avenue, Shillington, PA 19607
Harold Rulen	Box 18, White Rock, Hurricane, WV 25526
R. L. Rumpf, Jr. (Virginia)	3545 Edgewater Drive, Orlando, FL 32804
E. Joseph Sabo, KB7NU	2330 171st Place S.E., Bothel, WA 98011
Edward W. Sage	1781 Helane Court, Benicia, CA 94510
Walter J. Sanders	15 Todd Place, Terre Haute, IN 47803
Oran A. J. Sauder	25500 Bella Donna Drive, South Lyon, MI 48178
Mike D. Sauer	601 North Holden Street, Port Washington, WI 53074
Robert W. Schaumleffel	417 East State Street, Olean, NY 14760
John Scheele	4352 Nokomis, Minneapolis, MN 55406
Carol J. Schilo	463 Juniper Lane, Cheshire, CT 06410
Joseph L. Schmid	19200-6 Hamlin Street, Reseda, CA 91335
William L. Schmohl	Box 230, R.D. 3, Cogan Station, PA 17728
Gary B. Schneider	6848 Commonwealth Boulevard, Parma Heights, OH 44130
Michael Scilipoti	P.O. Box 87, Woolford, MD 21677
W. J. Scott	401-1937 Pendrell Street, Vancouver, B.C., Canada V6G 1T4
Richard E. Seaby	8 Peachtree Street, Nashville, TN 37210
William A. Seaby, Jr.	7850 Birmingham Avenue, Baltimore, MD 21234
Clay B. Seidel (Margaret)	900 Grant Avenue, Collingswood, NJ 08107
Bill Moss Settle (Nancy)	Clarksdale Circle, Glasgow, KY 42141
John B. Sevier	449 East 28th Street, Baltimore, MD 21218
Eric George Shalkhauser, W9CI (Emma)	527 Spring Creek Road, Washington, IL 61571
David Shanks, WA2HFY (Milsia)	115 Baldwin Street, Bloomfield, NJ 07003
Vincent J. Shea, Jr.	6 Rocky Ridge Road, Easton, CT 06612
Archie F. Shearer	3133 Lincoln Highway East, Paradise, PA 17562
John Shiels, W3OKP	3212 Chestnut Street, Murrysville, PA 15668
Kenneth L. Shipley	3805 Camino Sacramento, NE, Albuquerque, NM 87111
Maurice L. Sievers	612 East Winter Drive, Phoenix, AZ 85020
Gerald J. Simkin	10 Avalon Lane, Matawan, NJ 07747
Kenneth J. Sleger	2424 Taylor Avenue, Alexandria, VA 22303
Bill Gene Smith	Rte. 1, Box 376, Herrin, IL 62948
E. A. Smith, W3BNO	2714 Alden Road, Baltimore, MD 21234
Hayden Smith, KA7GAD	1038 East 2200 North, Logan, UT 84321
Raymond G. Smith, WB4ZDU	334 Mockingbird Valley Road, Louisville, KY 40207
Roger K. Smith, Jr.	13 Oswego Plains Drive, Oswego, IL 60543
Ross Smith	1133 Strong, Elkhart, IN 46514
Joseph C. Smolski	2641 East Cannon Drive, Phoenix, AZ 85028
Alton L. Snyder, W8CIM (Sally)	5555 Pennington, P.O. Box 35, Tecumseh, MI 49286
Harry C. Snyder, W0RN	1941 East 16th, Fremont, NE 68025
Aaron D. Solomon, VE1OC	8 Crichton Park Road, Dartmouth, Nova Scotia, Canada B3A 2N8
CWO Howard Sparks	Apartment 137, 4116 Newson Road, Huntsville, AL 35805
Matthew L. Spitzer	943 B Street, Hayward, CA 94541
Kenneth Spriggel	293 Sundale Road, Akron, OH 44313
Edmund L. Sroka (Irene)	3270 South 12th Street, Milwaukee, WI 53215
W. R. Stahlman	R.D. 2, Box 198 IJ, Lewistown, PA 17044
Julius W. Stedenfeld, W2TBS	26 Gibson Plaza, Washington, NJ 07882
James U. Steele	178 East 80th Street, 22B, New York, NY 10021
John Steinholz	1148 Sheldon Drive, Westbury, NY 11590
Patrick Stewart, W7GVC (Anna)	1404 Ruth Street, Walla Walla, WA 99362
Ashman C. Stoddard, W8KLN (Marian)	1502 Briarwood Road, Lansing, MI 48917
George F. Stoltz	10339 Bay Hills Drive North, Largo, FL 33540
Marion J. Stoner, W8UWY (Beverly, K8ZJU)	12217 Airport Road, Dewitt, MI 48820
David R. Stout	439 21st Street, Santa Monica, CA 90402
Robert D. Stover, Jr.	Rte. 3, Box 521, 521 Ackerman Drive, Stevensville, MD 21666
Leon A. Streng, N3BOB (Margaret)	321 South Sixth Street, North Wales, PA 19454
Billy Stricklin, W4GJG	Rte. 5, Box 175 A, Savannah, TN 38372
Donald Sturzenbecher (Eileen)	Box 423, Marlon, SD 57043
D. C. Stumner	39 Parkside Drive, Davis, CA 95616
J. W. Suter	1622 Heather Glen, Dallas, TX 75232
Walter A. Sutton	2530 Louisiana Street, Beaumont, TX 77702
Dallas A. Swindal, KZ4Z	1112 San Jose Lane, Hanahan, SC 29406
Richard S. Szpyrka, WB8TIF (Stella, WD8CSQ)	15907 Flanders, Southgate, MI 48195
Seymour Tannenbaum	202 Miriam Parkway, Elmont, NY 11003
Ronald Michael Tassi	3345 Moravia Road, Baltimore, MD 21214
E. E. Taylor	245 North Oakland Avenue, Indianapolis, IN 46201
Rick Taylor	7136 East Lea Road, Chattanooga, TN 37421
William H. Taylor (Sonya)	Box 132, Wawaset Road, Unionville, PA 19375
David W. Terwilliger	Box 651, White Plains, NY 10602
Normand R. Thibault, W1AUT	15 Carter Avenue, Blackstone, MA 01504
Jimmy L. Thompson	601 Ridgewood Avenue, 108, Minneapolis, MN 55403
Raymond Thompson (Sheri)	7422 Cherry Tree Drive, Fulton, MD 20759
Dr. Ralph G. Thorn	61 Maple Place, Huntington, NY 11743
Allen W. Tomisman	27 Knauf Lane, Loudonville, NY 12211

Ben H. Tongue	41 Ferris Drive, West Orange, NJ 07052
C. A. Trivette	1500 Beverly Boulevard, Ashland, KY 41101
James L. Troe, W2GRX (Mary)	111 Skyline Drive, Morristown, NJ 07960
John Tschopp	21611 North Old Barrington Road, Barrington, IL 60010
Roy T. Tucker, N6TK	14109 Whiterock Drive, La Mirada, CA 90638
Mike Tuggle	909 Moores Mill Road, Bel Air, MD 21014
David M. Upton, WB1CMG	P.O. Box 1227, 74 Birch Lane, Brewster, MA 02631
Frank Vaillencourt (Jeannie)	Ox Bow Road, Hinsdale, NH 03451
James P. Vansant	Rte. 1, Box 81 A, Jasper, GA 30143
Steven P. Verde (Diane)	281 Martin Drive, South Elgin, IL 60177
Eric W. Vogt, WN3VDN	425 Edgehill Road, Glenside, PA 19038
Daniel S. Voydanoff	1141 Yorkshire, Grosse Point, MI 48230
James Wades	34080 Hunters Row, Farmington Hills, MI 48018
George Wakefield (Mary Lib)	106 Brookwood Avenue, Fayetteville, NC 28301
William Leon Wall, W4OLC	P.O. Box 213, Bethlehem, GA 30620
Jack S. Wallace, W1HH	5516 Gilbow Avenue, Ft. Worth, TX 76114
Robert A. Wallace	146 West Ford Street, Chelmsford, MA 01824
J. Albert Warren (Genevieve)	Box 279, Church Street, Waverly, PA 18471
James F. Warren, Jr.	7502 132nd NE, Kirkland, WA 98033
Tom Warren	5119 McCarty, Amarillo, TX 79109
John Wasiewcz, W2DQC (Anna)	229 Sarles Lane, Pleasantville, NY 10570
Rich Weibezahl	305 Belvidere Avenue, Washington, NJ 07882
Thomas P. Wensel	2401 Red Maple Lane, Reston, VA 22091
John W. Weyer (Vera)	R.R. 3, Box 58, Burlington, IA 52601
Dermot F. Whelan	31 Middleton Street, St. John's, Newfoundland, Canada A1A 3J2
Tom Wherry	215 West Lane, Kerriville, TX 78028
Chatland Whitmore	45 East Orchard Street, Allendale, NJ 07401
John Milton Williams (Claire Safran)	53 Evergreen Avenue, Westport, CT 06880
Ralph O. Williams, N3VT (Elinor)	R.D. 1, Box 44, Orient, NY 11957
Joseph Willis	525 Oakdale 524, Chicago, IL 60657
Paul Wilson, K8JSS (Louise)	6 Arlington Avenue, Charleston, WV 25302
James C. Winnette (Dean)	P.O. Box 639, Shelbyville, TN 37160
R. Chester Wisner, W1VSR	1014 Main Street, Dalton, MA 01226
John P. Wolkonowicz	11 Hartford Road, Worcester, MA 01606
Richard G. Wolven	2614 Reno Road, Castleton, NY 12033
Bill R. Wood, WA5FON	714 West Main Street, Memphis, TN 79245
Fenton M. Wood, KB5VQ	3122 Ann Arbor, Sugarland, TX 77478
Edgar Woodward, Jr.	603 Main Street, Conway, SC 29526
RMC Charles A. Wootten	Communications Department, USS Nassau LHA4, FPO, NY 09557
Russell Worthy	389 West Main Street, North Adams, MA 01247
David A. Wright	5225 Pooks Hill Road, 214 North, Bethesda, MD 29814
Dr. Larry Wright (Joyce Ann)	131 Hill Top Drive, Lake In The Hills, IL 60102
Orval Wright, W7YAI	Box 641, Hurricane, UT 84737
Peter Yanczer, K0IWX (Edna)	835 Bricken Place, Warson Woods, MO 63122
Mingshih 'David' Yo	P.O. Box 832, Monterey Park, CA 91754
Meredith L. Young, W6QKR (Dorothy)	Route 2, Box 481, Hot Springs, AR 71901
Joseph F. Zammit	1106 Burke Street, Winston-Salem, NC 27101
Allan M. Zwaaf	47 Hart Avenue, Hopewell, NJ 08525

"Under the Wire"

Kenneth J. Monnier	213 Hillcrest Court, Sidney, OH 45365
Henry R. Harder	P.O. Box 95, West Brookfield, MA 01585
Bob Perkins	508 Newport Drive, East, Mobile, AL 36609
John W. Bond	105 Woodlawn Road, Baltimore, MD 21210
Tova Lee Zeff	1506 Lombard Street, #4, San Francisco, CA 94123
Nathan T. Francis	2020 Hanover Circle, Beaumont, TX 77706
Edward G. Marcus	43-05 44th Street, Long Island City, NY 11104
Michael R. Keefe	4125 Thornhill Drive, Sacramento, CA 95826
James M. Corio	Box 224, Bridgeport Road, Bellemead, NJ 08502
Wendell R. Wyborny	8703 Wind Rock, Houston, TX 77040
Clare A. Anderson	Apartment 1506, 57 Widdicombe Hill Boulevard, Weston, Ontario M9R 1Y4
Charles A. Schaffer, K2LOI	1065 Niskayuna Road, Schenectady, NY 12309
Arthur Warner	2 Merrifield Place, Delmar, NY 12054
Richard G. Rogers	330 Allison Avenue, Washington, PA 15301
Peter Naumov	260 Arthur Street, Fairfield, Victoria, Australia 3078
D. L. Gustafson	708 Edgemont Lane, Park Ridge, IL 60068
John Kent Allison	160 South Country Road, East Patchogue, NY 11772
Jose Gabriel Trindade de Sa	Rua Duarte Pacheco Pereira, No. 26 1. DTO, 1400 Lisboa, Portugal
Bruce & Charlotte Mager	32 East 13th Street, New York, NY 10003
Jay Dee Thomas	507 Lincoln Road, Rockville, IN 47872
Marc Carlson	587 11th Street, Brooklyn, NY 11215
Nelson G. Bartley	Rte. 3, Box 194-A, Waynesboro, VA 22980
John E. Kendall	600 Remington Road, Fallston, MD 21047